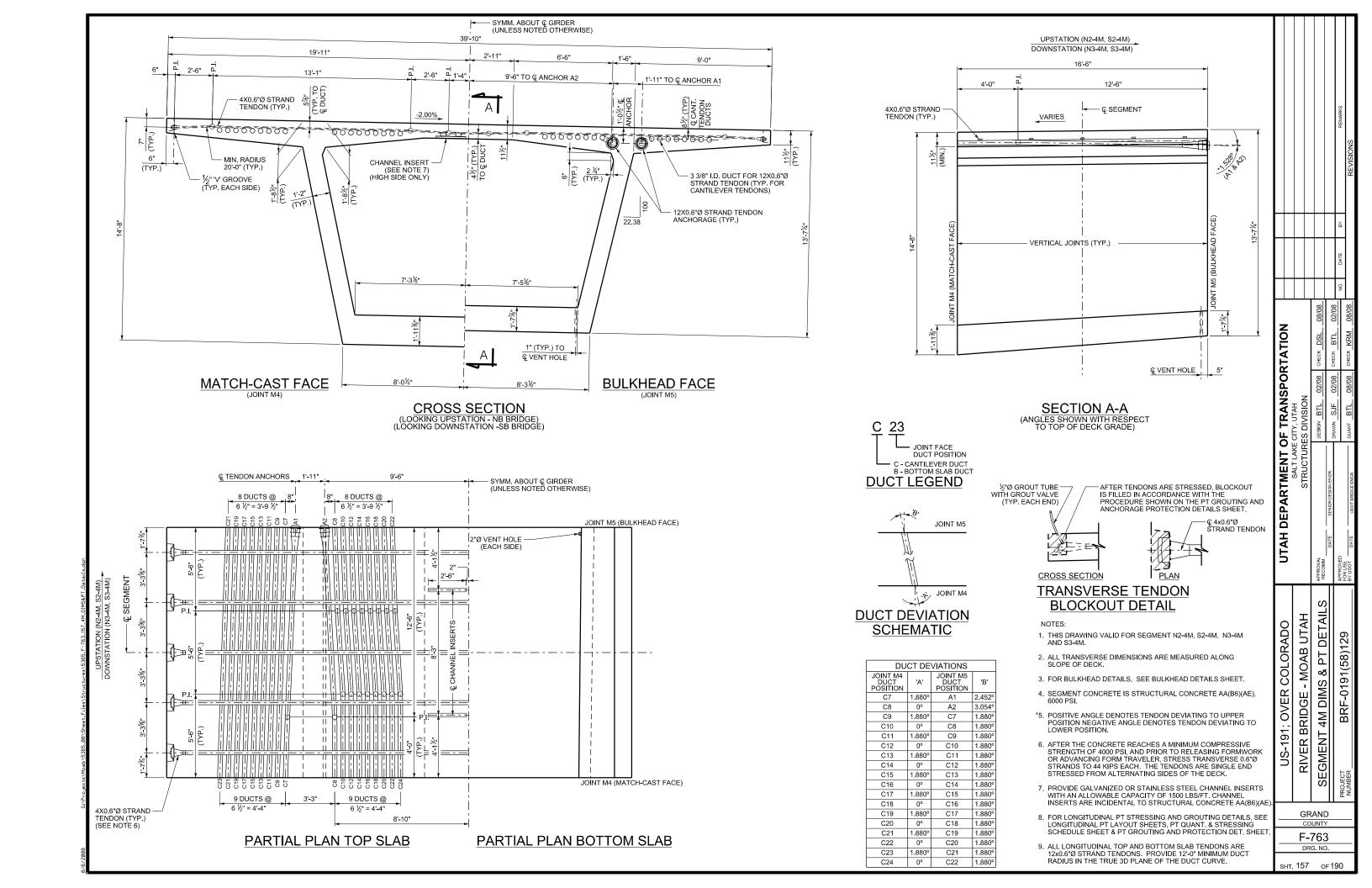
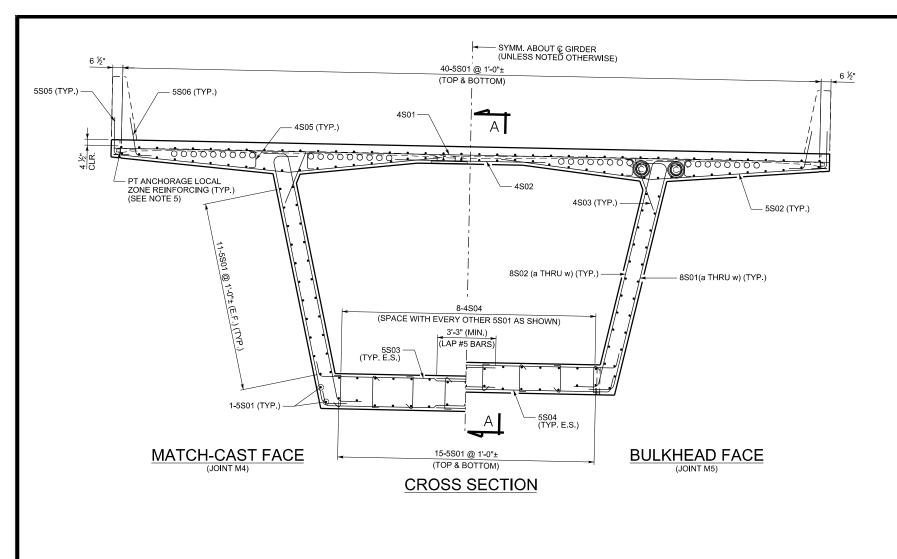
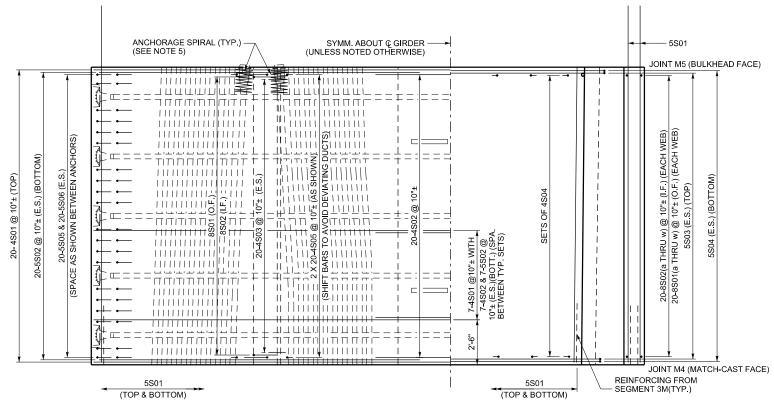
90% PRELIMINARY PLANS

ALL INFORMATION CONTAINED WITHIN
IS TO BE CONSIDERED PRELIMINARY

NOT FOR CONSTRUCTION

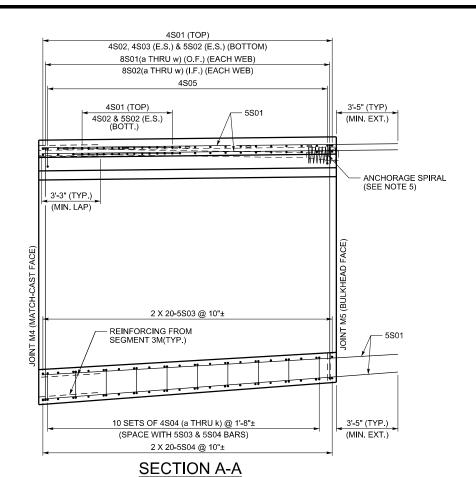






PARTIAL PLAN TOP SLAB

PARTIAL PLAN BOTTOM SLAB



- 1. THIS DRAWING VALID FOR SEGMENTS N2-4M, S2-4M, N3-4M AND S3-4M.
- 2. SPACE ALL REINFORCING BARS TO CLEAR POST-TENSIONING DUCTS
- 3. CONCRETE COVER:

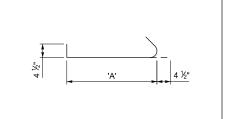
 - 4½" TOP OF DECK 1½" ALL OTHER SURFACES
- 4. ALL REINFORCING STEEL IS EPOXY COATED.
- 5. FOR PT ANCHORAGE SPIRAL AND TRANSVERSE LOCAL ZONE REINFORCING, SEE PT QUANT. & STRESSING SCHEDULE SHEET.
- 6. THE SYMBOL \pm DENOTES BARS THAT CAN BE SHIFTED \pm 2" TO AVOID OTHER REINFORCING OR POST-TENSIONING HARDWARE, OR TO ACHIEVE EQUAL SPACING FROM FIRST TO LAST BAR.

				BY REMARKS	REVISIONS
				DATE	
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JTAH DEPARTMENT OF TRANSPORTATION	SALI LAKE CITY, UTAH STRUCTURES DIVISION	DESIGN BTL 02/08 CHECK DSL 08/08	NECK BTI 02/08		— QUANT. BTL 08/08 СНЕСК KRM 08/08
UTAH DEPARTMENT	STRUCTU	APPROVAL RECOMM	DATE SENIOR DESIGN ENGR.	APPROVED	BY UDOT DATE UDOT BRIDGE ENGR.
US-191; OVER COLORADO	RIVER BRIDGE - MOAB UTAH	SEGMENT AM REINFORCING I		PROJECT DDE 0404/E8\400	NUMBER BIN -0191(30)129
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	F-	76; G. N	-		4
SHT.	158	C)F 1	90	

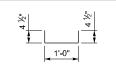
SEGMENT TYPE 4M BAR BENDING SCHEDULE - VALID FOR SEGMENTS N2-4M, S2-4M, N3-4M AND S3-4M.

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'
4S01	TOP SLAB	4	27	39'-7"	1068'-9"	39'-7"
4S02	TOP SLAB	4	27	8'-8"	234'-0"	8'-8"
4S03	TOP SLAB	4	40	2'-9"	110'-0"	2'-9"
5S01	SEGMENT	5	158	19'-9 1/2"	3127'-1"	19'-9 1/2"

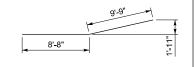
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'
4S04a	BOTTOM SLAB	4	8	2'-5 1/4"	19'-6"	1'-8 1/4"
4S04b	BOTTOM SLAB	4	8	2'-4 7/8"	19'-3 1/8"	1'-7 7/8"
4S04c	BOTTOM SLAB	4	8	2'-4 1/2"	19'-0 1/4"	1'-7 1/2"
4S04d	BOTTOM SLAB	4	8	2'-4 1/8"	18'-9 1/4"	1'-7 1/8"
4S04e	BOTTOM SLAB	4	8	2'-3 3/4"	18'-6 3/8"	1'-6 3/4"
4S04f	BOTTOM SLAB	4	8	2'-3 1/2"	18'-3 1/2"	1'-6 1/2"
4S04g	BOTTOM SLAB	4	8	2'-3 1/8"	18'-0 5/8"	1'-6 1/8"
4S04h	BOTTOM SLAB	4	8	2'-2 3/4"	17'-9 3/4"	1'-5 3/4"
4S04j	BOTTOM SLAB	4	8	2'-2 3/8"	17'-6 7/8"	1'-5 3/8"
4S04k	BOTTOM SLAB	4	8	2'-2"	17'-4"	1'-5"



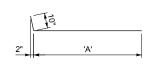
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL
4S05	TOP SLAB	4	80	1'-9"	140'-0"



MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL
5S02	TOP SLAB	5	54	18'-5"	994'-6"
	•	•		•	•



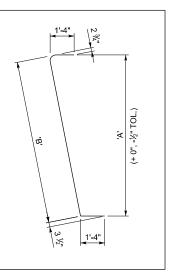
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'
5S03	BOTTOM SLAB	5	40	10'-11 1/8"	437'-1"	10'-1 1/8"
5S04	BOTTOM SLAB	5	40	10'-7 3/8"	424'-7"	9'-9 3/8"
5S06	TOP SLAB	5	40	3'-7"	143'-4"	2'-9"
		•	•			



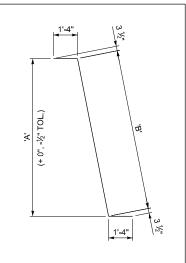
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL
5S05	TOP SLAB	5	40	3'-7"	143'-4"

	10	
2'-9"		

MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
8S01a	1	WEBS	8	2	17'-0 1/4"	34'-0 5/8"	14'-1 1/8"	14'-4 1/4"
8S01b	2	WEBS	8	2	16'-11 5/8"	33'-11 1/4"	14'-0 1/2"	14'-3 5/8"
8S01c	3	WEBS	8	2	16'-11"	33'-10"	13'-11 3/4"	14'-3"
8S01d	4	WEBS	8	2	16'-10 3/8"	33'-8 5/8"	13'-11 1/8"	14'-2 3/8"
8S01e	5	WEBS	8	2	16'-9 5/8"	33'-7 3/8"	13'-10 1/2"	14'-1 5/8"
8S01f	6	WEBS	8	2	16'-9"	33'-6"	13'-9 7/8"	14'-1"
8S01g	7	WEBS	8	2	16'-8 3/8"	33'-4 5/8"	13'-9 1/4"	14'-0 3/8"
8S01h	8	WEBS	8	2	16'-7 5/8"	33'-3 3/8"	13'-8 5/8"	13'-11 3/4"
8S01j	9	WEBS	8	2	16'-7"	33'-2"	13'-8"	13'-11"
8S01k	10	WEBS	8	2	16'-6 3/8"	33'-0 3/4"	13'-7 3/8"	13'-10 3/8"
8S01m	11	WEBS	8	2	16'-5 3/4"	32'-11 3/8"	13'-6 5/8"	13'-9 3/4"
8S01n	12	WEBS	8	2	16'-5"	32'-10 1/8"	13'-6"	13'-9"
8S01p	13	WEBS	8	2	16'-4 3/8"	32'-8 3/4"	13'-5 3/8"	13'-8 3/8"
8S01q	14	WEBS	8	2	16'-3 3/4"	32'-7 1/2"	13'-4 3/4"	13'-7 3/4"
8S01r	15	WEBS	8	2	16'-3 1/8"	32'-6 1/8"	13'-4 1/8"	13'-7 1/8"
8S01s	16	WEBS	8	2	16'-2 3/8"	32'-4 7/8"	13'-3 1/2"	13'-6 3/8"
8S01t	17	WEBS	8	2	16'-1 3/4"	32'-3 1/2"	13'-2 7/8"	13'-5 3/4"
8S01u	18	WEBS	8	2	16'-1 1/8"	32'-2 1/4"	13'-2 1/8"	13'-5 1/8"
8S01v	19	WEBS	8	2	16'-0 1/2"	32'-0 7/8"	13'-1 1/2"	13'-4 1/2"
8S01w	20	WEBS	8	2	15'-11 3/4"	31'-11 5/8"	13'-0 7/8"	13'-3 3/4"



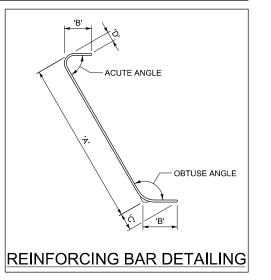
MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
8S02a	1	WEBS	8	2	17'-1 1/8"	34'-2 1/8"	14'-1 1/8"	14'-5 1/8"
8S02b	2	WEBS	8	2	17'-0 3/8"	34'-0 7/8"	14'-0 1/2"	14'-4 3/8"
8S02c	3	WEBS	8	2	16'-11 3/4"	33'-11 1/2"	13'-11 3/4"	14'-3 3/4"
8S02d	4	WEBS	8	2	16'-11 1/8"	33'-10 1/4"	13'-11 1/8"	14'-3 1/8"
8S02e	5	WEBS	8	2	16'-10 1/2"	33'-8 7/8"	13'-10 1/2"	14'-2 1/2"
8S02f	6	WEBS	8	2	16'-9 3/4"	33'-7 5/8"	13'-9 7/8"	14'-1 3/4"
8S02g	7	WEBS	8	2	16'-9 1/8"	33'-6 1/4"	13'-9 1/4"	14'-1 1/8"
8S02h	8	WEBS	8	2	16'-8 1/2"	33'-5"	13'-8 5/8"	14'-0 1/2"
8S02j	9	WEBS	8	2	16'-7 7/8"	33'-3 5/8"	13'-8"	13'-11 7/8"
8S02k	10	WEBS	8	2	16'-7 1/8"	33'-2 3/8"	13'-7 3/8"	13'-11 1/8"
8S02m	11	WEBS	8	2	16'-6 1/2"	33'-1"	13'-6 5/8"	13'-10 1/2"
8S02n	12	WEBS	8	2	16'-5 7/8"	32'-11 5/8"	13'-6"	13'-9 7/8"
8S02p	13	WEBS	8	2	16'-5 1/8"	32'-10 3/8"	13'-5 3/8"	13'-9 1/4"
8S02q	14	WEBS	8	2	16'-4 1/2"	32'-9"	13'-4 3/4"	13'-8 1/2"
8S02r	15	WEBS	8	2	16'-3 7/8"	32'-7 3/4"	13'-4 1/8"	13'-7 7/8"
8S02s	16	WEBS	8	2	16'-3 1/4"	32'-6 3/8"	13'-3 1/2"	13'-7 1/4"
8S02t	17	WEBS	8	2	16' - 2 1/2"	32'-5 1/8"	13'-2 7/8"	13'-6 1/2"
8S02u	18	WEBS	8	2	16'-1 7/8"	32'-3 3/4"	13'-2 1/8"	13'-5 7/8"
8S02v	19	WEBS	8	2	16'-1 1/4"	32'-2 1/2"	13'-1 1/2"	13'-5 1/4"
8S02w	20	WEBS	8	2	16'-0 5/8"	32'-1 1/8"	13'-0 7/8"	13'-4 5/8"





B - ANCHOR BLOCK
D - DEVIATOR
S - SEGMENT

BAR NUMBER

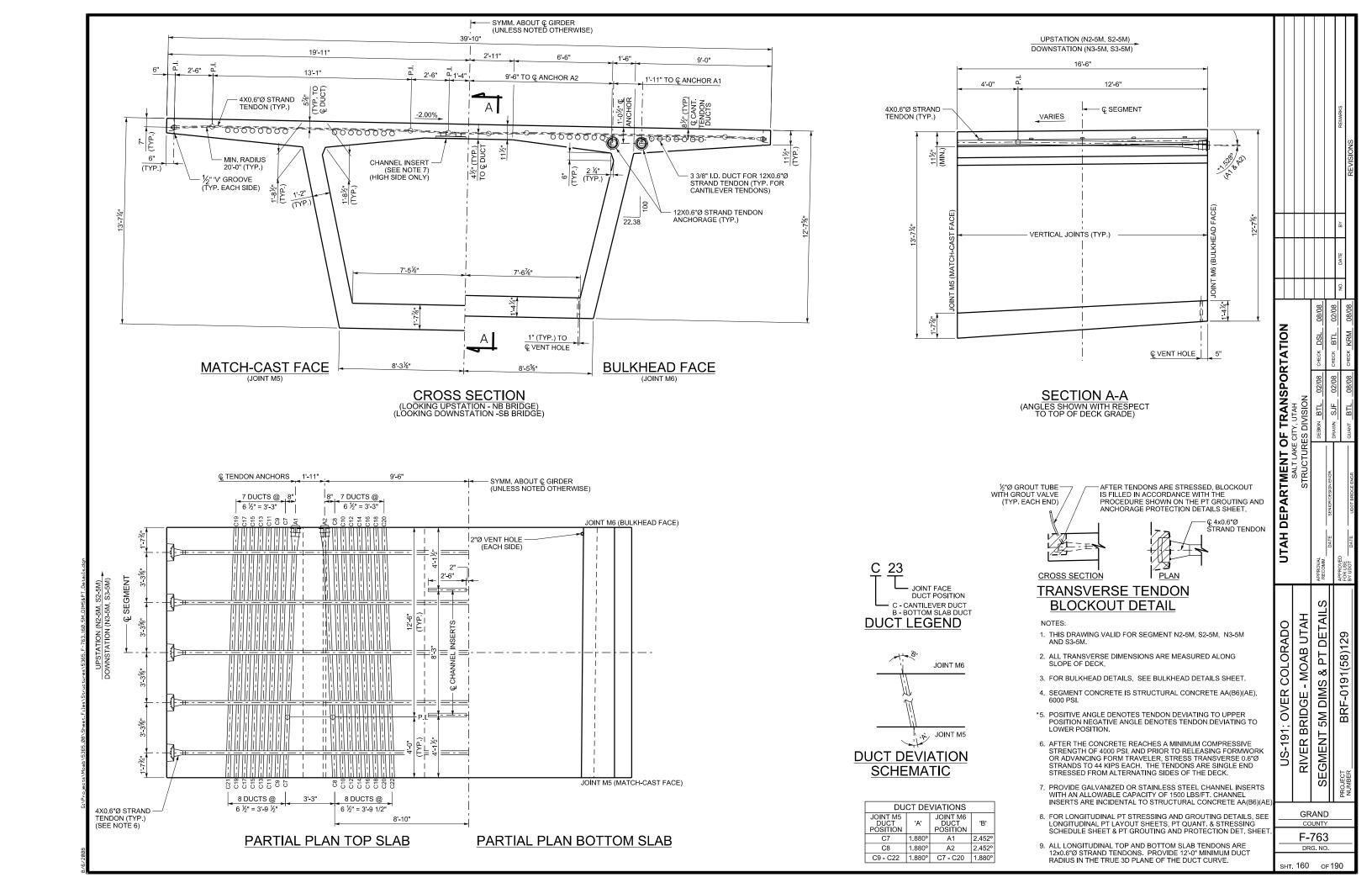


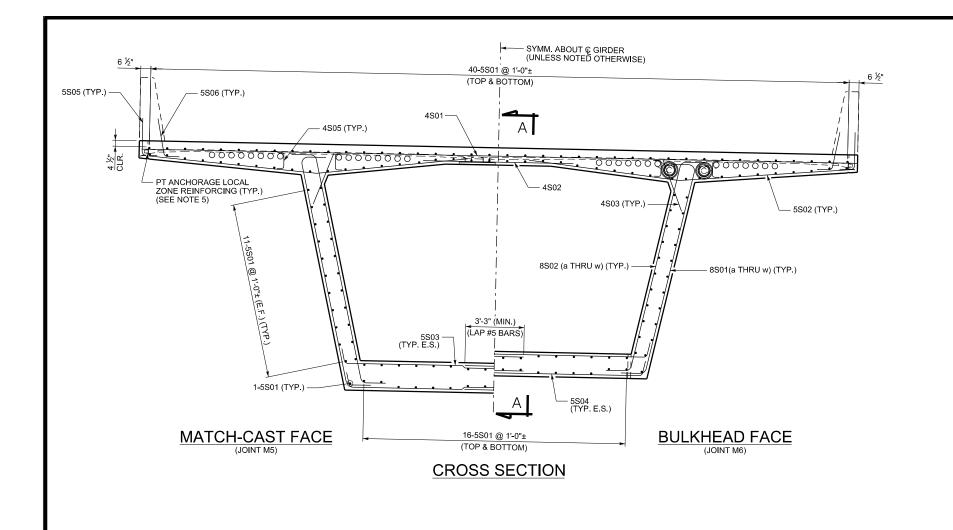
ESTIMATED QUANTITIES - ONE SEGMENT TYPE	4M	
ITEM DESCRIPTION:	UNIT	QUANTITY
REINFORCING STEEL - COATED (PLAN QUANTITY)	LB	10,189
STRUCTURAL CONCRETE AA(B6)(AE) (FOR INFORMATION ONLY)	CY	65.8
POST-TENSIONING STEEL STRAND (TRANSVERSE) (PLAN QUANTITY)	LB	575

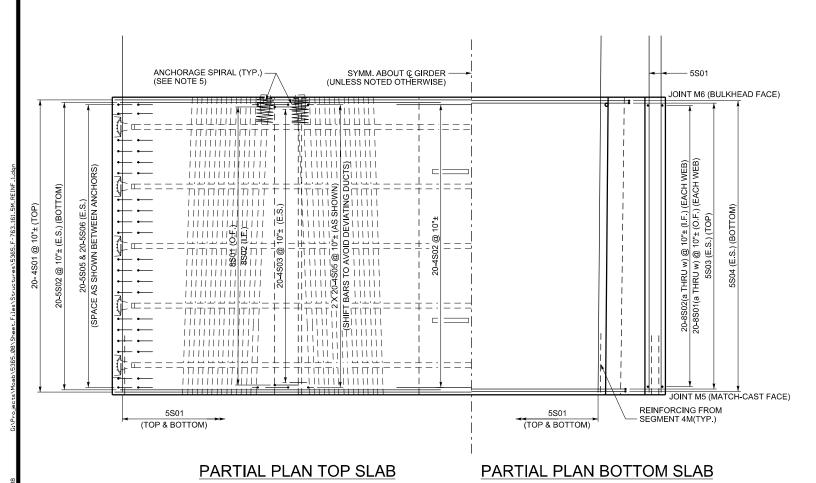
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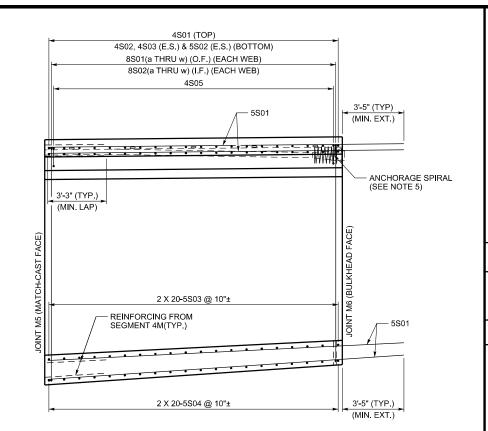
- THIS DRAWING VALID FOR SEGMENTS N2-4M, S2-4M, N3-4M AND S3-4M.
- 2. ALL REINFORCING STEEL IS EPOXY COATED.
- 3. PROVIDE BAR BENDS IN ACCORDANCE WITH CRSI. PROVIDE BEND TOLERANCES AS REQUIRED FOR CONSTRUCTION OR AS SHOWN ABOVE FOR BARS 8501& 8502.
- 4. FOR PT ANCHORAGE SPIRAL AND TRANSVERSE LOCAL ZONE REINFORCING, SEE PT QUANT. & STRESSING SCHEDULE SHEET.
- STRUCTURAL CONCRETE VOLUME IS GIVEN AS INFORMATION ONLY. STRUCTURAL CONCRETE IS PAID LUMP SUM.

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US-191; OVER COLORADO UTAH DEPARTMENT OF TRANSPORTATION SALT LAKE CITY, UTAH STRUCTURES DIVISION SEGMENT 4M REINFORCING II PROJECT PROJECT SEGMENT 4M REINFORCING II PROJECT PROJECT DESIGN BTL OLIVE DEL 02/08 DESIGN BTL OLIVE DEL 02/08 DESIGN BTL DESIGN BTL									ı			
US-191; OVER COLORADO UTAH DEPARTMENT C SALT LAKE SALT L									Ļ	J		
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US-191; OVER COLORADO UTAH DEPARTMENT C SALT LAKE SALT L	۷ ا	AH DEPARTMENT OF TRA SALT LAKE CITY, UTAH STRUCTURES DIVISIC				DESIGN BTI				QUANT. BT		
BENOTOR OLORADO US-191; OVER COLORADO RIVER BRIDGE - MOAB UTAH RECOMBINE SEGMENT 4M REINFORCING II PROJECT BRF-0191(58)129 ROBERT - MONTES BRF-0191 (58)129							_	SENIOR DESIGN ENGR.				DATE UDOT BRIDGE ENGR.
GRAND COUNTY F-763 DRG. NO.)				APPROVAL						1000 19
GRAND COUNTY F-763 DRG. NO.		US-191, OVER COLORADO	IVER BRIDGE - MOAB UTAH EGMENT 4M REINFORCING II RRF-0194/58/129						621/00)1610-110			
F-763 DRG. NO. SHT. 159 OF 190			G	SR CO	1	ANI JNT		Ш) 		_	_	_
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SECTION A-A

- 1. THIS DRAWING VALID FOR SEGMENTS N2-5M, S2-5M, N3-5M AND S3-5M.
- 2. SPACE ALL REINFORCING BARS TO CLEAR POST-TENSIONING DUCTS
- 3. CONCRETE COVER:

 - 4½" TOP OF DECK 1½" ALL OTHER SURFACES
- 4. ALL REINFORCING STEEL IS EPOXY COATED.
- 5. FOR PT ANCHORAGE SPIRAL AND TRANSVERSE LOCAL ZONE REINFORCING, SEE PT QUANT. & STRESSING SCHEDULE SHEET.
- 6. THE SYMBOL \pm DENOTES BARS THAT CAN BE SHIFTED \pm 2" TO AVOID OTHER REINFORCING OR POST-TENSIONING HARDWARE, OR TO ACHIEVE EQUAL SPACING FROM FIRST TO LAST BAR.

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OTAH DEPAKTMENT OF TRANSPORTATION	SALT LAKE CITY, UTAH	AIG GEGET FOLIGEG	SIRUCIURES DIVISION		APPROVAL DESIGN	PA TE	SENIOR DESIGN ENGR.	APPROVED		UDOT BRIDGE ENGR.	
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SEGMENT TYPE 5M BAR BENDING SCHEDULE - VALID FOR SEGMENTS N2-5M, S2-5M, N3-5M AND S3-5M.

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'
4S01	TOP SLAB	4	20	39'-7"	791'-8"	39'-7"
4S02	TOP SLAB	4	20	8'-8"	173'-4 1/8"	8'-8"
4S03	TOP SLAB	4	40	2'-9"	110'-0"	2'-9"
5S01	SEGMENT	5	158	19'-9 1/2"	3127'-1"	19'-9 1/2"

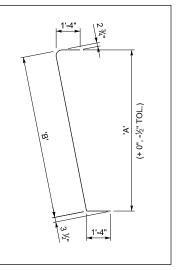
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	54 %
4S05	TOP SLAB	4	80	1'-9"	140'-0"	24 4 Z
						` <u>†</u> <u></u>
						1'-0"

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	9:-9"
5S02	TOP SLAB	5	40	18'-5"	736'-8"	
						8'-8"
						 < →

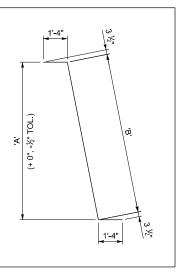
5S03 BOTTOM SLAB 5 40 11'-07/8" 442'-11" 10'-27/8" 5S04 BOTTOM SLAB 5 40 10'-10" 433'-4" 10'-0" 5S06 TOP SLAB 5 40 3'-7" 143'-4" 2'-9"
5804 BOTTOM SLAB 5 40 10'-10" 433'-4" 10'-0"
5906 TOP SLAB 5 40 3'.7" 143'.4" 2'.9"
2" 'A'

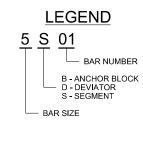
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	5
5S05	TOP SLAB	5	40	3'-7"	143'-4"	
						2'-9"

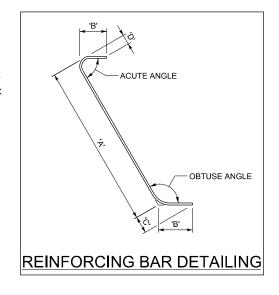
MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
8S01a	1	WEBS	8	2	15'-11 1/8"	31'-10 3/8"	13'-0 1/4"	13'-3 1/8"
8S01b	2	WEBS	8	2	15'-10 5/8"	31'-9 1/8"	12'-11 3/4"	13'-2 5/8"
8S01c	3	WEBS	8	2	15'-10"	31'-8"	12'-11 1/8"	13'-2"
8S01d	4	WEBS	8	2	15'-9 3/8"	31'-6 3/4"	12'-10 1/2"	13'-1 3/8"
8S01e	5	WEBS	8	2	15'-8 3/4"	31'-5 5/8"	12'-10"	13'-0 3/4"
8S01f	6	WEBS	8	2	15'-8 1/4"	31'-4 3/8"	12'-9 3/8"	13'-0 1/4"
8S01g	7	WEBS	8	2	15'-7 5/8"	31'-3 1/4"	12'-8 7/8"	12'-11 5/8"
8S01h	8	WEBS	8	2	15'-7"	31'-2 1/8"	12'-8 1/4"	12'-11"
8S01j	9	WEBS	8	2	15'-6 1/2"	31'-0 7/8"	12'-7 5/8"	12'-10 1/2"
8S01k	10	WEBS	8	2	15'-5 7/8"	30'-11 3/4"	12'-7 1/8"	12'-9 7/8"
8S01m	11	WEBS	8	2	15'-5 1/4"	30'-10 1/2"	12'-6 1/2"	12'-9 1/4"
8S01n	12	WEBS	8	2	15'-4 5/8"	30'-9 3/8"	12'-6"	12'-8 5/8"
8S01p	13	WEBS	8	2	15'-4 1/8"	30'-8 1/8"	12'-5 3/8"	12'-8 1/8"
8S01q	14	WEBS	8	2	15'-3 1/2"	30'-7"	12'-4 3/4"	12'-7 1/2"
8S01r	15	WEBS	8	2	15'-2 7/8"	30'-5 3/4"	12'-4 1/4"	12'-6 7/8"
8S01s	16	WEBS	8	2	15'-2 1/4"	30'-4 5/8"	12'-3 5/8"	12'-6 3/8"
8S01t	17	WEBS	8	2	15'-1 3/4"	30'-3 1/2"	12'-3 1/8"	12'-5 3/4"
8S01u	18	WEBS	8	2	15'-1 1/8"	30'-2 1/4"	12'-2 1/2"	12'-5 1/8"
8S01v	19	WEBS	8	2	15'-0 1/2"	30'-1 1/8"	12'-1 7/8"	12'-4 1/2"
8S01w	20	WEBS	8	2	15'-0"	30'-0"	12'-1 3/8"	12'-4"



MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
8S02a	1	WEBS	8	2	16'-0"	32'-0"	13'-0 1/4"	13'-4"
8S02b	2	WEBS	8	2	15'-11 3/8"	31'-10 3/4"	12'-11 3/4"	13'-3 3/8"
8S02c	3	WEBS	8	2	15'-10 3/4"	31'-9 1/2"	12'-11 1/8"	13'-2 3/4"
8S02d	4	WEBS	8	2	15'-10 1/8"	31'-8 3/8"	12'-10 1/2"	13'-2 1/4"
8S02e	5	WEBS	8	2	15'-9 5/8"	31'-7 1/4"	12'-10"	13'-1 5/8"
8S02f	6	WEBS	8	2	15'-9"	31'-6"	12'-9 3/8"	13'-1"
8S02g	7	WEBS	8	2	15'-8 3/8"	31'-4 7/8"	12'-8 7/8"	13'-0 3/8"
8S02h	8	WEBS	8	2	15'-7 7/8"	31'-3 5/8"	12'-8 1/4"	12'-11 7/8"
8S02j	9	WEBS	8	2	15'-7 1/4"	31'-2 1/2"	12'-7 5/8"	12'-11 1/4"
8S02k	10	WEBS	8	2	15'-6 5/8"	31'-1 1/4"	12'-7 1/8"	12'-10 5/8"
8S02m	11	WEBS	8	2	15'-6"	31'-0 1/8"	12'-6 1/2"	12'-10"
8S02n	12	WEBS	8	2	15'-5 1/2"	30'-10 7/8"	12'-6"	12'-9 1/2"
8S02p	13	WEBS	8	2	15'-4 7/8"	30'-9 3/4"	12'-5 3/8"	12'-8 7/8"
8S02q	14	WEBS	8	2	15'-4 1/4"	30'-8 5/8"	12'-4 3/4"	12'-8 1/4"
8S02r	15	WEBS	8	2	15'-3 3/4"	30'-7 3/8"	12'-4 1/4"	12'-7 3/4"
8S02s	16	WEBS	8	2	15'-3 1/8"	30'-6 1/4"	12'-3 5/8"	12'-7 1/8"
8S02t	17	WEBS	8	2	15'-2 1/2"	30'-5"	12'-3 1/8"	12'-6 1/2"
8S02u	18	WEBS	8	2	15'-1 7/8"	30'-3 7/8"	12'-2 1/2"	12'-5 7/8"
8S02v	19	WEBS	8	2	15'-1 3/8"	30'-2 5/8"	12'-1 7/8"	12'-5 3/8"
8S02w	20	WEBS	8	2	15'-0 3/4"	30'-1 1/2"	12'-1 3/8"	12'-4 3/4"





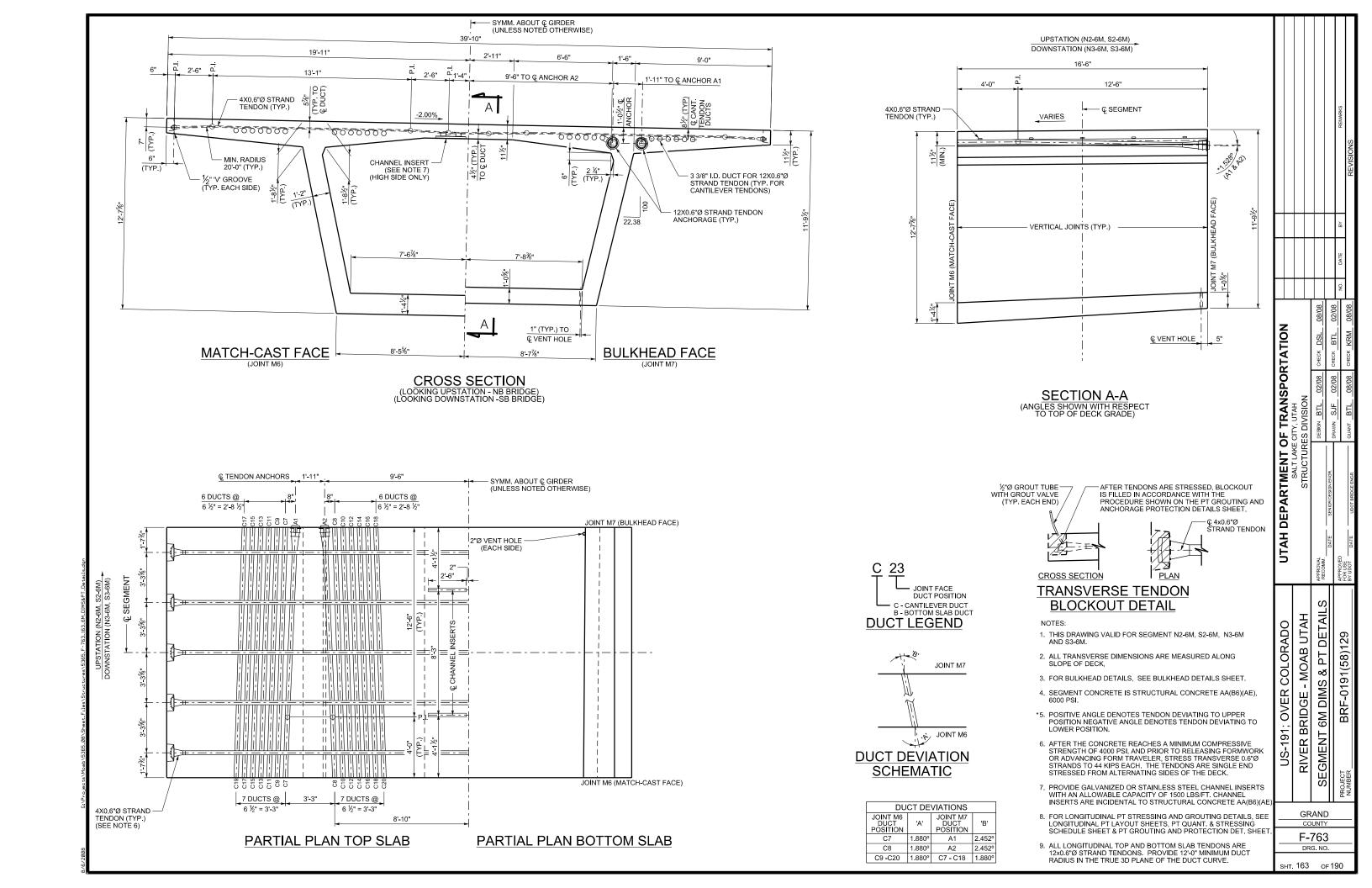


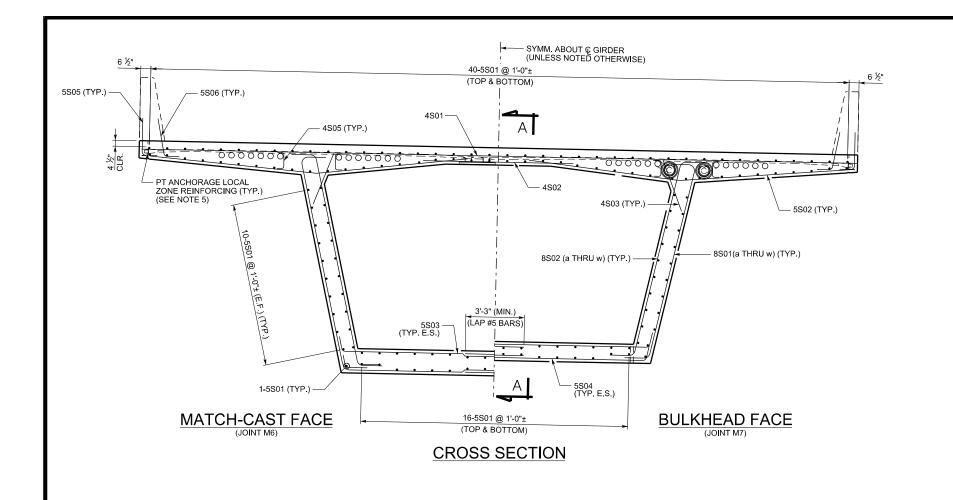
ESTIMATED QUANTITIES - ONE SEGMENT TYPE	5M	
ITEM DESCRIPTION:	UNIT	QUANTITY
REINFORCING STEEL - COATED (PLAN QUANTITY)	LB	9,364
STRUCTURAL CONCRETE AA(B6)(AE) (FOR INFORMATION ONLY)	CY	62.0
POST-TENSIONING STEEL STRAND (TRANSVERSE) (PLAN QUANTITY)	LB	575

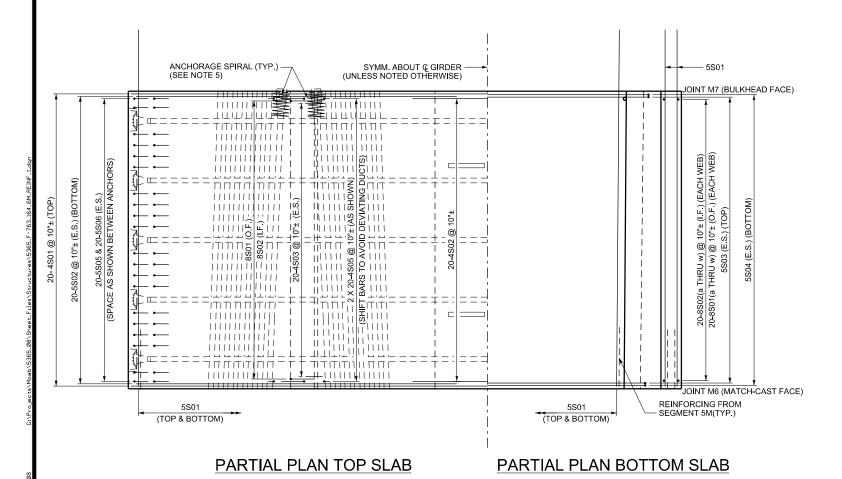
- 1. THIS DRAWING VALID FOR SEGMENTS N2-5M, S2-5M, N3-5M AND S3-5M.
- 2. ALL REINFORCING STEEL IS EPOXY COATED.
- 3. PROVIDE BAR BENDS IN ACCORDANCE WITH CRSI. PROVIDE BEND TOLERANCES AS REQUIRED FOR CONSTRUCTION OR AS SHOWN ABOVE FOR BARS 8501& 8502.
- 4. FOR PT ANCHORAGE SPIRAL AND TRANSVERSE LOCAL ZONE REINFORCING, SEE PT QUANT. & STRESSING SCHEDULE SHEET.

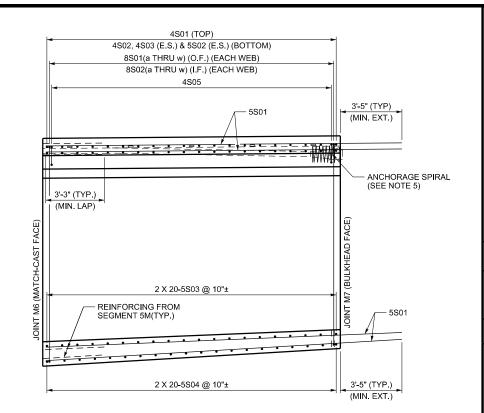
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5. STRUCTURAL CONCRETE VOLUME IS GIVEN AS INFORMATION ONLY. STRUCTURAL CONCRETE IS PAID LUMP SUM.









SECTION A-A

NOTES

- 1. THIS DRAWING VALID FOR SEGMENTS N2-6M, S2-6M, N3-6M AND S3-6M.
- 2. SPACE ALL REINFORCING BARS TO CLEAR POST-TENSIONING DUCTS.
- 3. CONCRETE COVER:
 - 4 ½" TOP OF DECK 1 ½" - ALL OTHER SURFACES
- 4. ALL REINFORCING STEEL IS EPOXY COATED.
- 5. FOR PT ANCHORAGE SPIRAL AND TRANSVERSE LOCAL ZONE REINFORCING, SEE PT QUANT. & STRESSING SCHEDULE SHEET.
- 6. THE SYMBOL \pm DENOTES BARS THAT CAN BE SHIFTED \pm 2" TO AVOID OTHER REINFORCING OR POST-TENSIONING HARDWARE, OR TO ACHIEVE EQUAL SPACING FROM FIRST TO LAST BAR.

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SEGMENT TYPE 6M BAR BENDING SCHEDULE - VALID FOR SEGMENTS N2-6M, S2-6M, N3-6M AND S3-6M.

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'
4S01	TOP SLAB	4	20	39'-7"	791'-8"	39'-7"
4S02	TOP SLAB	4	20	8'-8"	173'-4"	8'-8"
4S03	TOP SLAB	4	40	2'-9"	110'-0"	2'-9"
5S01	SEGMENT	5	154	19'-9 1/2"	3047'-11"	19'-9 1/2"

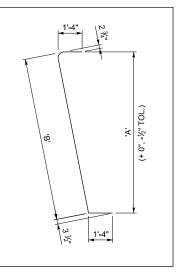
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	
4S05	TOP SLAB	4	80	1'-9"	140'-0"	7 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
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MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	9:-9"
5802	TOP SLAB	5	40	18'-5"	736'-8"	
						8'-8"
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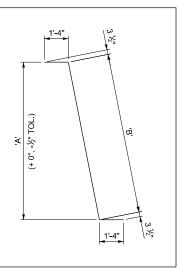
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'
5S03	BOTTOM SLAB	5	40	11'-2 3/8"	447'-11"	10'-4 3/8"
5S04	BOTTOM SLAB	5	40	11'-0 1/4"	440'-10"	10'-2 1/4"
5S06	TOP SLAB	5	40	3'-7"	143'-4"	2'-9"

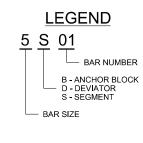
5S05 TOP SLAB 5 40 3'-7" 143'-4" 2'-9"	MARK LOCATION	LOCATION	SIZE NUM	LENGTH	TOTAL
	5S05 TOP SLAB	TOP SLAB	5 40	3'-7"	143'-4"

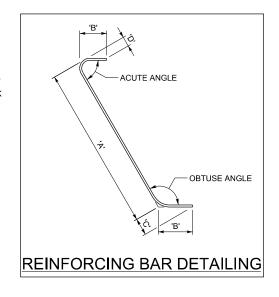
MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
8S01a	1	WEBS	8	2	14'-11 3/8"	29'-10 3/4"	12'-0 3/4"	12'-3 3/8"
8S01b	2	WEBS	8	2	14'-10 7/8"	29'-9 3/4"	12'-0 1/4"	12'-2 7/8"
8S01c	3	WEBS	8	2	14'-10 3/8"	29'-8 3/4"	11'-11 3/4"	12'-2 3/8"
8S01d	4	WEBS	8	2	14'-9 7/8"	29'-7 5/8"	11'-11 1/4"	12'-1 7/8"
8S01e	5	WEBS	8	2	14'-9 1/4"	29'-6 5/8"	11'-10 3/4"	12'-1 1/4"
8S01f	6	WEBS	8	2	14'-8 3/4"	29'-5 1/2"	11'-10 1/4"	12'-0 3/4"
8S01g	7	WEBS	8	2	14'-8 1/4"	29'-4 1/2"	11'-9 3/4"	12'-0 1/4"
8S01h	8	WEBS	8	2	14'-7 3/4"	29'-3 1/2"	11'-9 1/4"	11'-11 3/4"
8S01j	9	WEBS	8	2	14'-7 1/4"	29'-2 3/8"	11'-8 3/4"	11'-11 1/4"
8S01k	10	WEBS	8	2	14'-6 3/4"	29'-1 3/8"	11'-8 1/4"	11'-10 3/4"
8S01m	11	WEBS	8	2	14'-6 1/8"	29'-0 3/8"	11'-7 3/4"	11'-10 1/8"
8S01n	12	WEBS	8	2	14'-5 5/8"	28'-11 1/4"	11'-7 1/4"	11'-9 5/8"
8S01p	13	WEBS	8	2	14'-5 1/8"	28'-10 1/4"	11'-6 5/8"	11'-9 1/8"
8S01q	14	WEBS	8	2	14'-4 5/8"	28'-9 1/4"	11'-6 1/8"	11'-8 5/8"
8S01r	15	WEBS	8	2	14'-4 1/8"	28'-8 1/8"	11'-5 5/8"	11'-8 1/8"
8S01s	16	WEBS	8	2	14'-3 1/2"	28'-7 1/8"	11'-5 1/8"	11'-7 1/2"
8S01t	17	WEBS	8	2	14'-3"	28'-6"	11'-4 5/8"	11'-7"
8S01u	18	WEBS	8	2	14'-2 1/2"	28'-5"	11'-4 1/8"	11'-6 1/2"
8S01v	19	WEBS	8	2	14'-2"	28'-4"	11'-3 5/8"	11'-6"
8S01w	20	WEBS	8	2	14'-1 1/2"	28'-2 7/8"	11'-3 1/8"	11'-5 1/2"



MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
8S02a	1	WEBS	8	2	15'-0 1/8"	30'-0 3/8"	12'-0 3/4"	12'-4 1/4"
8S02b	2	WEBS	8	2	14'-11 5/8"	29'-11 3/8"	12'-0 1/4"	12'-3 5/8"
8S02c	3	WEBS	8	2	14'-11 1/8"	29'-10 1/4"	11'-11 3/4"	12'-3 1/8"
8S02d	4	WEBS	8	2	14'-10 5/8"	29'-9 1/4"	11'-11 1/4"	12'-2 5/8"
8S02e	5	WEBS	8	2	14'-10 1/8"	29'-8 1/4"	11'-10 3/4"	12'-2 1/8"
8S02f	6	WEBS	8	2	14'-9 5/8"	29'-7 1/8"	11'-10 1/4"	12'-1 5/8"
8S02g	7	WEBS	8	2	14'-9"	29'-6 1/8"	11'-9 3/4"	12'-1"
8S02h	8	WEBS	8	2	14'-8 1/2"	29'-5"	11'-9 1/4"	12'-0 1/2"
8S02j	9	WEBS	8	2	14'-8"	29'-4"	11'-8 3/4"	12'-0"
8S02k	10	WEBS	8	2	14'-7 1/2"	29'-3"	11'-8 1/4"	11'-11 1/2"
8S02m	11	WEBS	8	2	14'-7"	29'-1 7/8"	11'-7 3/4"	11'-11"
8S02n	12	WEBS	8	2	14'-6 3/8"	29'-0 7/8"	11'-7 1/4"	11'-10 1/2"
8S02p	13	WEBS	8	2	14'-5 7/8"	28'-11 7/8"	11'-6 5/8"	11'-9 7/8"
8S02q	14	WEBS	8	2	14'-5 3/8"	28'-10 3/4"	11'-6 1/8"	11'-9 3/8"
8S02r	15	WEBS	8	2	14'-4 7/8"	28'-9 3/4"	11'-5 5/8"	11'-8 7/8"
8S02s	16	WEBS	8	2	14'-4 3/8"	28'-8 3/4"	11'-5 1/8"	11'-8 3/8"
8S02t	17	WEBS	8	2	14'-3 7/8"	28'-7 5/8"	11'-4 5/8"	11'-7 7/8"
8S02u	18	WEBS	8	2	14'-3 1/4"	28'-6 5/8"	11'-4 1/8"	11'-7 1/4"
8S02v	19	WEBS	8	2	14'-2 3/4"	28'-5 1/2"	11'-3 5/8"	11'-6 3/4"
8S02w	20	WEBS	8	2	14'-2 1/4"	28'-4 1/2"	11'-3 1/8"	11'-6 1/4"
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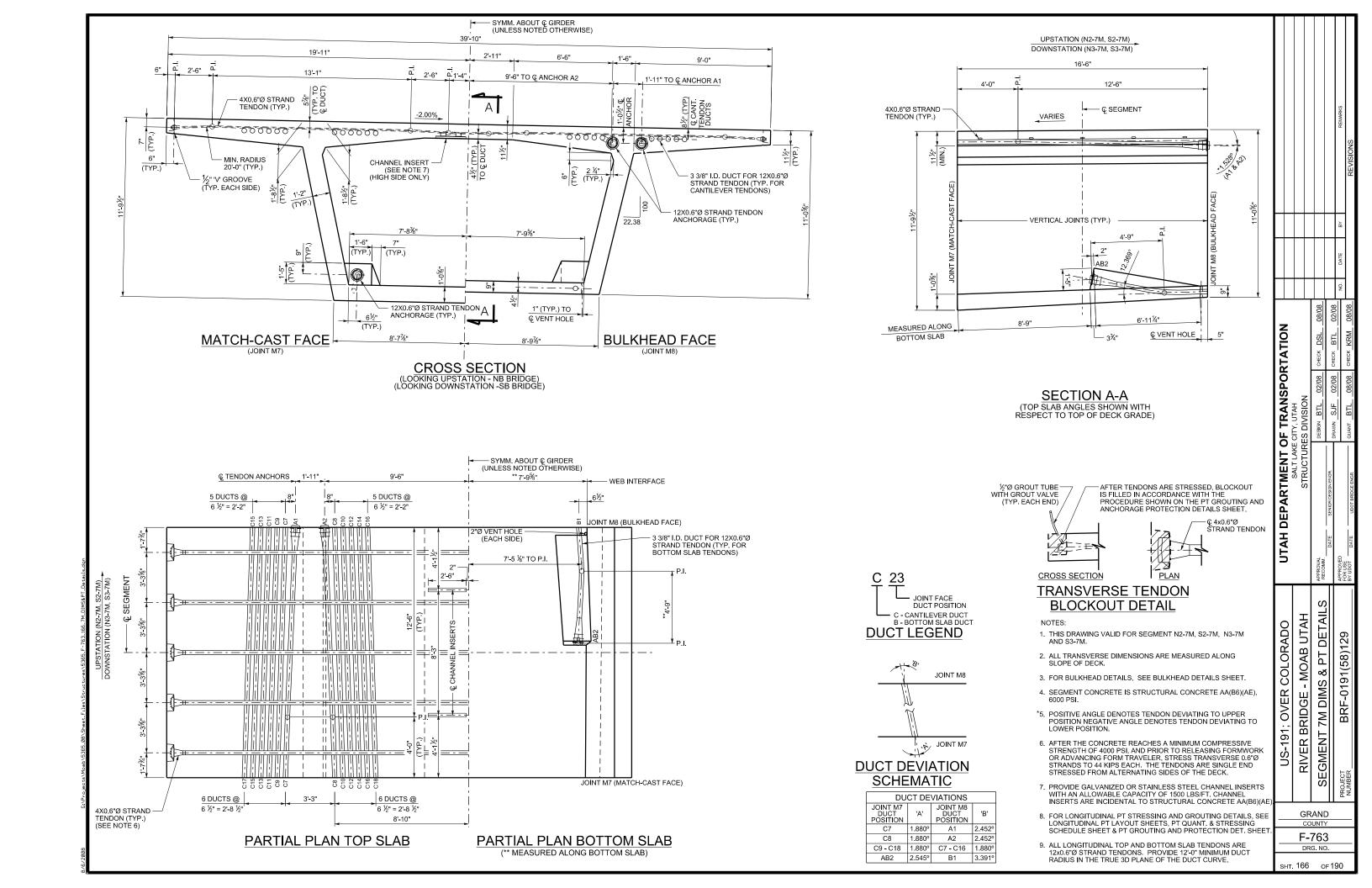


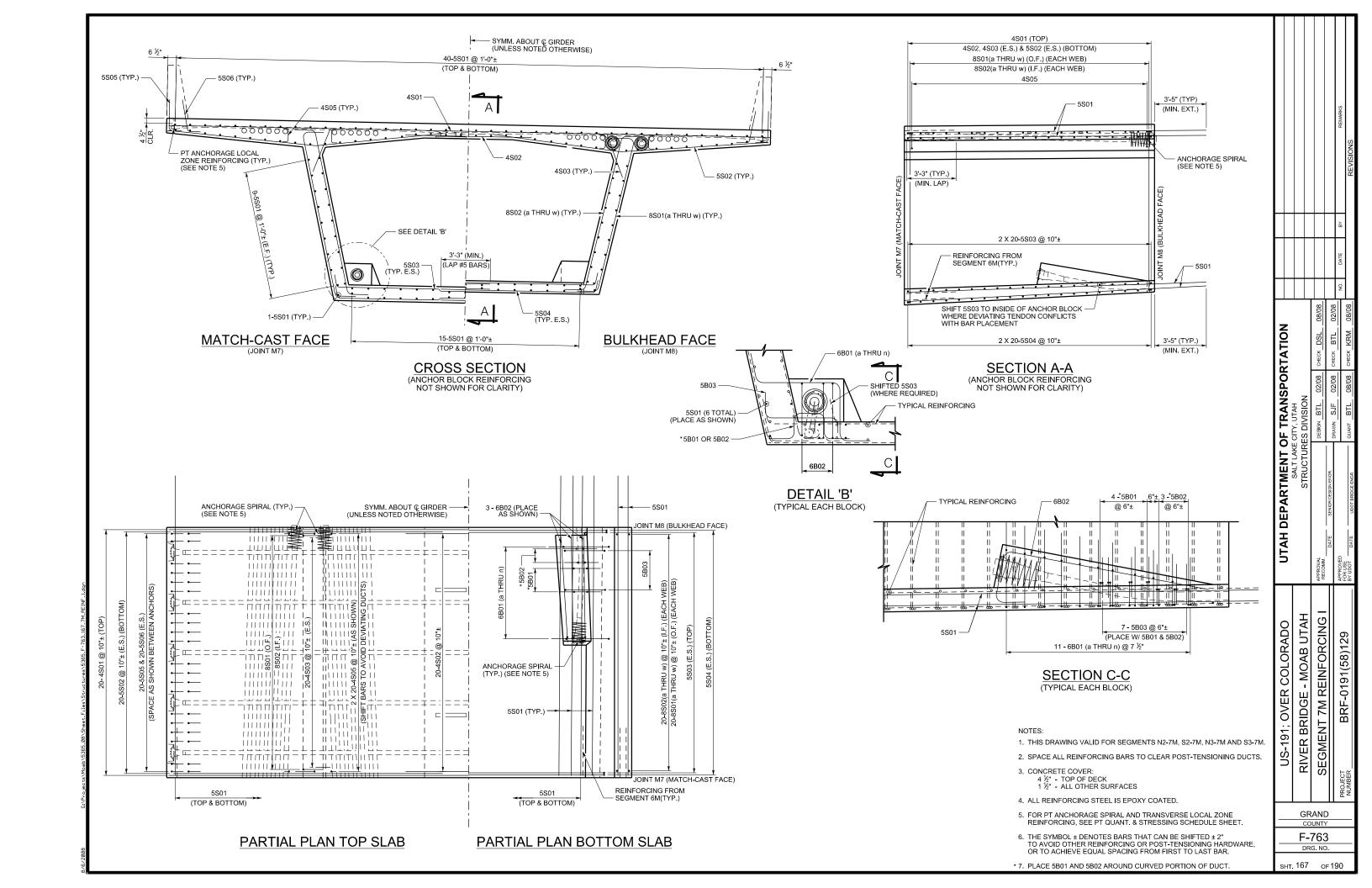
ESTIMATED QUANTITIES - ONE SEGMENT TYPE	6M	
ITEM DESCRIPTION:	UNIT	QUANTITY
REINFORCING STEEL - COATED (PLAN QUANTITY)	LB	9,097
STRUCTURAL CONCRETE AA(B6)(AE) (FOR INFORMATION ONLY)	CY	58.3
POST-TENSIONING STEEL STRAND (TRANSVERSE) (PLAN QUANTITY)	LB	575

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- 1. THIS DRAWING VALID FOR SEGMENTS N2-6M, S2-6M, N3-6M AND S3-6M.
- 2. ALL REINFORCING STEEL IS EPOXY COATED.
- 3. PROVIDE BAR BENDS IN ACCORDANCE WITH CRSI. PROVIDE BEND TOLERANCES AS REQUIRED FOR CONSTRUCTION OR AS SHOWN ABOVE FOR BARS 8501& 8502.
- 4. FOR PT ANCHORAGE SPIRAL AND TRANSVERSE LOCAL ZONE REINFORCING, SEE PT QUANT. & STRESSING SCHEDULE SHEET.
- STRUCTURAL CONCRETE VOLUME IS GIVEN AS INFORMATION ONLY, STRUCTURAL CONCRETE IS PAID LUMP SUM.

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SEGMENT TYPE 7M BAR BENDING SCHEDULE - VALID FOR SEGMENTS N2-7M, S2-7M, N3-7M AND S3-7M.

01 TOP SLAB 4 20 39'-7" 791'-8" 39'-7" 02 TOP SLAB 4 20 8'-8" 173'-4" 8'-8" 03 TOP SLAB 4 40 2'-9" 110'-0" 2'-9"
03 TOP SLAB 4 40 2'-9" 110'-0" 2'-9"
01 SEGMENT 5 162 19'-9 1/2" 3206'-3" 19'-9 1/2"

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	↓ ↓
4S05	TOP SLAB	4	80	1'-9"	140'-0"	
						4 4

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	9:9"
5S02	TOP SLAB	5	40	18'-5"	736'-8"	
						8:-8"

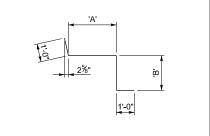
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'
5S03	BOTTOM SLAB	5	40	11'-3 1/2"	451'-8"	10'-5 1/2"
5S04	BOTTOM SLAB	5	40	11'-2 1/4"	447'-6"	10'-4 1/4"
5S06	TOP SLAB	5	40	3'-7"	143'-4"	2'-9"

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	5
5S05	TOP SLAB	5	40	3'-7"	143'-4"	

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'		'A' ►
5B01	ANCHOR BLOCK	5	8	4'-4"	34'-8"	1'-0"	0'-10"		_
5B02	ANCHOR BLOCK	5	6	3'-5 ¼"	20'-7 ½"	0'-7 1/4"	0'-7"		
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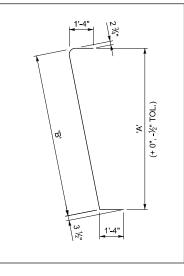
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	2'-9"
5B03	ANCHOR BLOCK	5	14	4'-1"	57'-2"	<u> </u>

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
6B01a	ANCHOR BLOCK	6	2	6'-7 ¾"	13'-3 ½"	2'-9 1/8"	1'-10 %"
6B01b	ANCHOR BLOCK	6	2	6'-6 ½"	13'-1"	2'-9 %"	1'-9 1/8"
6B01c	ANCHOR BLOCK	6	2	6'-5 ¼"	12'-10 ½"	2'-9 %"	1'-7 %"
6B01d	ANCHOR BLOCK	6	2	6'-4"	12'-8"	2'-9 %"	1'-6 1/8"
6B01e	ANCHOR BLOCK	6	2	6'-2 %"	12'-5 ¼"	2'-10 %"	1'-4 ½"
6B01f	ANCHOR BLOCK	6	2	6'-1 ¾"	12'-2 ¾"	2'-10 %"	1'-3"
6B01g	ANCHOR BLOCK	6	2	6'-0 %"	12'-0 ¼"	2'-10 %"	1'-1 ½"
6B01h	ANCHOR BLOCK	6	2	5'-11"	11'-10"	2'-11"	1'-0"
6B01k	ANCHOR BLOCK	6	2	5'-9 %"	11'-7 ¼"	2'-11 1/4"	0'-10 %"
6B01m	ANCHOR BLOCK	6	2	5'-8 ¾"	11'-4 ¾"	2'-11 ½"	0'-8 %"
6B01n	ANCHOR BLOCK	6	2	5'-7 1/8"	11'-2 ¼"	2'-11 ¾"	0'-7 %"

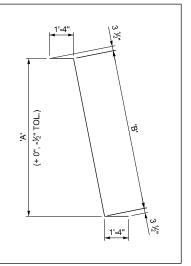


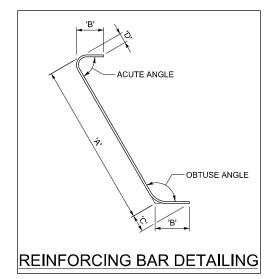
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	3 %"
6B02	ANCHOR BLOCK	6	6	9'-6 ¾"	57'-4 ½"	6'-10"
						90.8°
						1'-0"

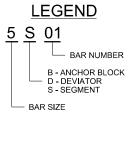
MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
8S01a	1	WEBS	8	2	14'-1"	28'-2"	11'-2 5/8"	11'-5"
8S01b	2	WEBS	8	2	14'-0 1/2"	28'-1"	11'-2 1/4"	11'-4 1/2"
8S01c	3	WEBS	8	2	14'-0 1/8"	28'-0 1/8"	11'-1 3/4"	11'-4 1/8"
8S01d	4	WEBS	8	2	13'-11 5/8"	27'-11 1/4"	11'-1 1/4"	11'-3 5/8"
8S01e	5	WEBS	8	2	13'-11 1/8"	27'-10 1/4"	11'-0 7/8"	11'-3 1/8"
8S01f	6	WEBS	8	2	13'-10 3/4"	27'-9 3/8"	11'-0 3/8"	11'-2 3/4"
8S01g	7	WEBS	8	2	13'-10 1/4"	27'-8 1/2"	11'-0"	11'-2 1/4"
8S01h	8	WEBS	8	2	13'-9 3/4"	27'-7 5/8"	10'-11 1/2"	11'-1 3/4"
8S01j	9	WEBS	8	2	13'-9 3/8"	27'-6 5/8"	10'-11 1/8"	11'-1 3/8"
8S01k	10	WEBS	8	2	13'-8 7/8"	27'-5 3/4"	10'-10 5/8"	11'-0 7/8"
8S01m	11	WEBS	8	2	13'-8 3/8"	27'-4 7/8"	10'-10 1/4"	11'-0 3/8"
8S01n	12	WEBS	8	2	13'-8"	27'-4"	10'-9 3/4"	11'-0"
8S01p	13	WEBS	8	2	13'-7 1/2"	27'-3"	10'-9 1/4"	10'-11 1/2"
8S01q	14	WEBS	8	2	13'-7"	27'-2 1/8"	10'-8 7/8"	10'-11 1/8"
8S01r	15	WEBS	8	2	13'-6 5/8"	27'-1 1/4"	10'-8 3/8"	10'-10 5/8"
8S01s	16	WEBS	8	2	13'-6 1/8"	27'-0 1/4"	10'-8"	10'-10 1/8"
8S01t	17	WEBS	8	2	13'-5 3/4"	26'-11 3/8"	10'-7 1/2"	10'-9 3/4"
8S01u	18	WEBS	8	2	13'-5 1/4"	26'-10 1/2"	10'-7 1/8"	10'-9 1/4"
8S01v	19	WEBS	8	2	13'-4 3/4"	26'-9 5/8"	10'-6 5/8"	10'-8 3/4"
8S01w	20	WEBS	8	2	13'-4 3/8"	26'-8 5/8"	10'-6 1/4"	10'-8 3/8"



MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
8S02a	1	WEBS	8	2	14'-1 3/4"	28'-3 1/2"	11'-2 5/8"	11'-5 3/4"
8S02b	2	WEBS	8	2	14'-1 1/4"	28'-2 5/8"	11'-2 1/4"	11'-5 3/8"
8S02c	3	WEBS	8	2	14'-0 7/8"	28'-1 3/4"	11'-1 3/4"	11'-4 7/8"
8S02d	4	WEBS	8	2	14'-0 3/8"	28'-0 3/4"	11'-1 1/4"	11'-4 3/8"
8S02e	5	WEBS	8	2	14'-0"	28'-0"	11'-0 7/8"	11'-4"
8S02f	6	WEBS	8	2	13'-11 1/2"	27'-11"	11'-0 3/8"	11'-3 1/2"
8S02g	7	WEBS	8	2	13'-11"	27'-10 1/8"	11'-0"	11'-3"
8S02h	8	WEBS	8	2	13'-10 5/8"	27'-9 1/8"	10'-11 1/2"	11'-2 5/8"
8S02j	9	WEBS	8	2	13'-10 1/8"	27'-8 1/4"	10'-11 1/8"	11'-2 1/8"
8S02k	10	WEBS	8	2	13'-9 5/8"	27'-7 3/8"	10'-10 5/8"	11'-1 5/8"
8S02m	11	WEBS	8	2	13'-9 1/4"	27'-6 3/8"	10'-10 1/4"	11'-1 1/4"
8S02n	12	WEBS	8	2	13'-8 3/4"	27'-5 1/2"	10'-9 3/4"	11'-0 3/4"
8S02p	13	WEBS	8	2	13'-8 1/4"	27'-4 5/8"	10'-9 1/4"	11'-0 3/8"
8S02q	14	WEBS	8	2	13'-7 7/8"	27'-3 3/4"	10'-8 7/8"	10'-11 7/8"
8S02r	15	WEBS	8	2	13'-7 3/8"	27'-2 3/4"	10'-8 3/8"	10'-11 3/8"
8S02s	16	WEBS	8	2	13'-7"	27'-1 7/8"	10'-8"	10'-11"
8S02t	17	WEBS	8	2	13'-6 1/2"	27'-1"	10'-7 1/2"	10'-10 1/2"
8S02u	18	WEBS	8	2	13'-6"	27'-0 1/8"	10'-7 1/8"	10'-10"
8S02v	19	WEBS	8	2	13'-5 5/8"	26'-11 1/8"	10'-6 5/8"	10'-9 5/8"
8S02w	20	WEBS	8	2	13'-5 1/8"	26'-10 1/4"	10'-6 1/4"	10'-9 1/8"





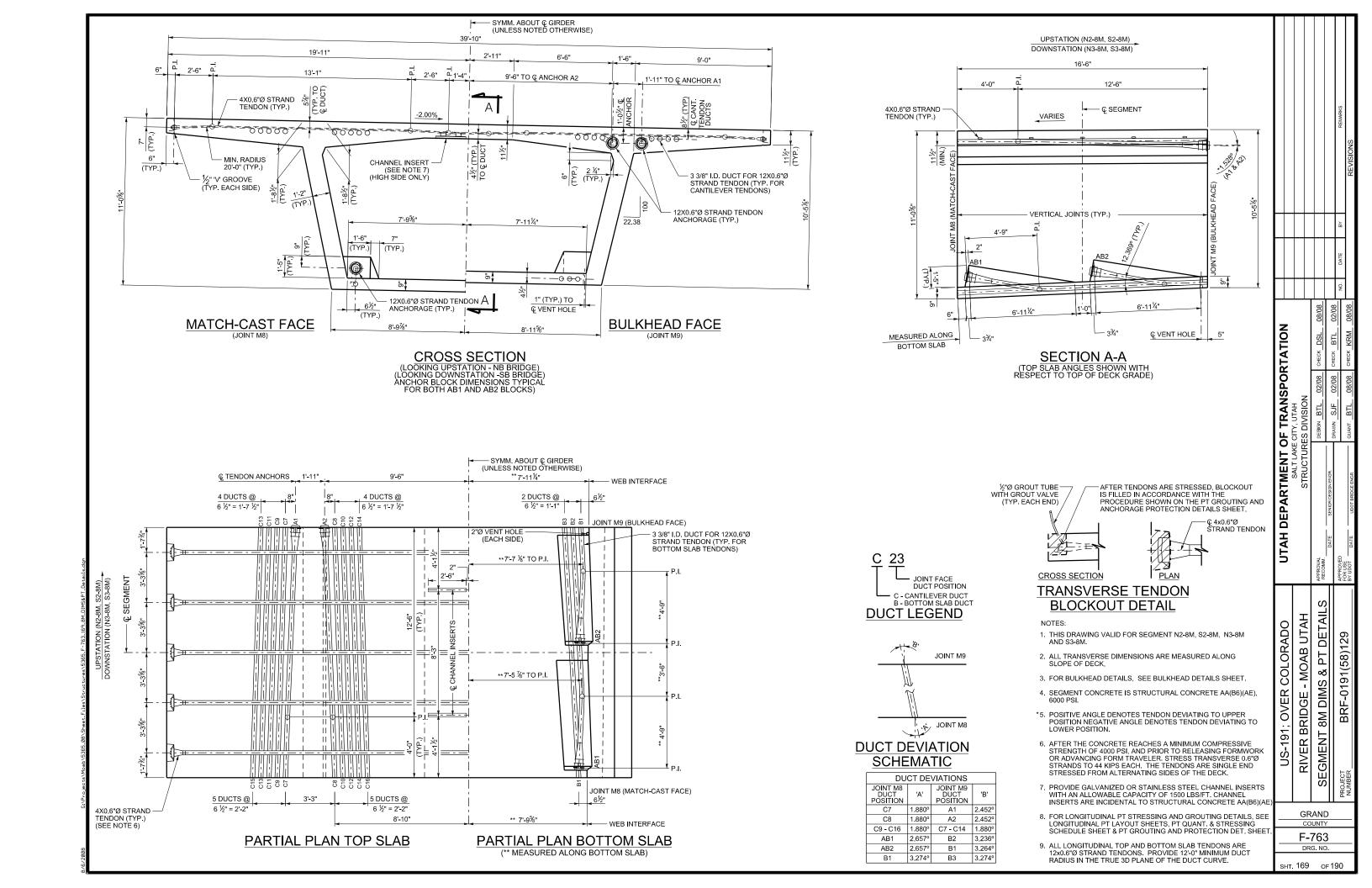


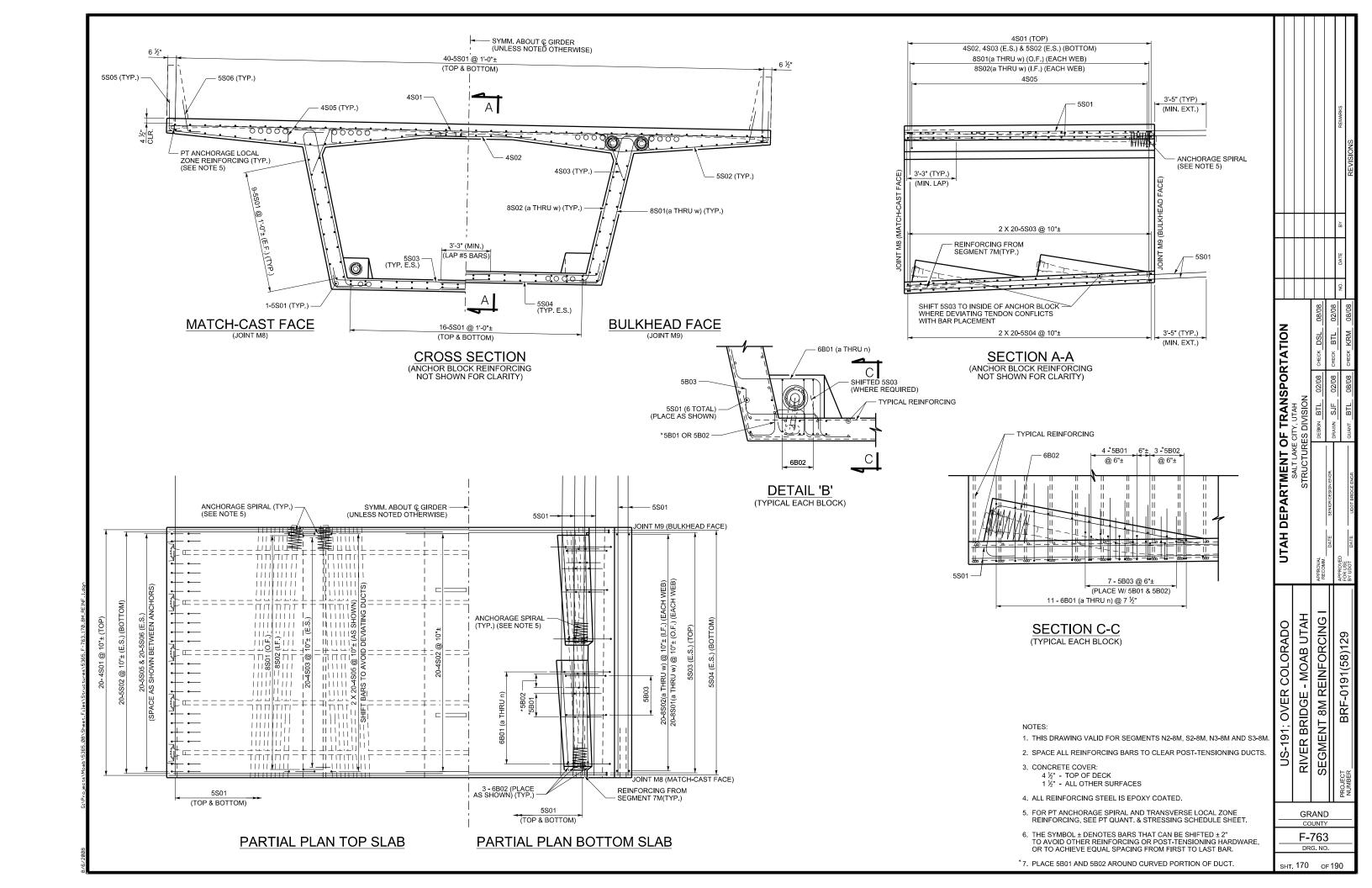
ESTIMATED QUANTITIES - ONE SEGMENT TYPE	7M	
ITEM DESCRIPTION:	UNIT	QUANTITY
REINFORCING STEEL - COATED (PLAN QUANTITY)	LB	9,418
STRUCTURAL CONCRETE AA(B6)(AE) (FOR INFORMATION ONLY)	CY	55.2
POST-TENSIONING STEEL STRAND (TRANSVERSE) (PLAN QUANTITY)	LB	575

NOTES

- 1. THIS DRAWING VALID FOR SEGMENTS N2-7M, S2-7M, N3-7M AND S3-7M.
- 2. ALL REINFORCING STEEL IS EPOXY COATED.
- 3. PROVIDE BAR BENDS IN ACCORDANCE WITH CRSI. PROVIDE BEND TOLERANCES AS REQUIRED FOR CONSTRUCTION OR AS SHOWN ABOVE FOR BARS 8S01& 8S02.
- 4. FOR PT ANCHORAGE SPIRAL AND TRANSVERSE LOCAL ZONE REINFORCING, SEE PT QUANT. & STRESSING SCHEDULE SHEET.
- STRUCTURAL CONCRETE VOLUME IS GIVEN AS INFORMATION ONLY. STRUCTURAL CONCRETE IS PAID LUMP SUM.

HOUSE COLORADO US-191; OVER COLORADO UTAH DEPARTMENT OF TRANSPORTATION SALT LAKE CITY, UTAH SALT LAKE CITY, UTAH STRUCTURES DIVISION RECOMM. DESIGN BTL. 02/08 CHECK BTL.									ATE VO VO VOICE	2	REVISIONS	
Companie	+								٥	į		
US-191; OVER COLORADO UTAH DEPARTMENT C SALT LAKE STRUCTURE ST				7		3/08		80/	Ļ		₹ 80%	
US-191; OVER COLORADO UTAH DEPARTMENT C SALT LAKE SA	PTATION					CHECK DSL 08		CHECK RTI 02	300		CHECK KRM 08	
US-191; OVER COLORADO UTAH DEPARTMENT C SALT LAKE STRUCTURE ST	CODS	5	7	ا		02/08		02/08			80/80	
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GRAND COUNTY F-763 DRG. NO.	IIS_101. OVER COLORADO	US-131, OVER COLORADO	DIVED RDINGE MOABIITAH	וואוט מאטואו – שטטואוט אושאואו		SEGMENT 7M REINFORCING II						
F-763 DRG. NO.			G		_			<u>Ц</u>		<u></u>	z 	
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SEGMENT TYPE 8M BAR BENDING SCHEDULE - VALID FOR SEGMENTS N2-8M, S2-8M, N3-8M AND S3-8M.

4S01	TOP SLAB	4				
		4	20	39'-7"	791'-8"	39'-7"
4S02	TOP SLAB	4	20	8'-8"	173'-4"	8'-8"
4S03	TOP SLAB	4	40	2'-9"	110'-0"	2'-9"
5S01	SEGMENT	5	162	19'-9 1/2"	3206'-3"	19'-9 1/2"

4\$05 TOP SLAB 4 80 1'-9" 140'-0" 🖔 1'-0" 🖔	MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	<u> </u>
	4S05	TOP SLAB	4	80	1'-9"	140'-0"] ~ 1 <u>'-</u> 0" ~

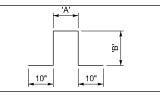
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	9.9"
5S02	TOP SLAB	5	40	18'-5"	736'-8"	
						8:-8"

5S03 BOTTOM SLAB 5 40 11'-5 1/4" 457'-6" 10'-7 1/4" 5S04 BOTTOM SLAB 5 40 11'-3 7/8" 452'-11" 10'-5 7/8" 5S06 TOP SLAB 5 40 3'-7" 143'-4" 2'-9"	MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'
	5S03	BOTTOM SLAB	5	40	11'-5 1/4"	457'-6"	10'-7 1/4"
5S06 TOP SLAB 5 40 3'-7" 143'-4" 2'-9"	5S04	BOTTOM SLAB	5	40	11'-3 7/8"	452'-11"	10'-5 7/8"
	5S06	TOP SLAB	5	40	3'-7"	143'-4"	2'-9"

2"	<u>'</u>	'A' →	

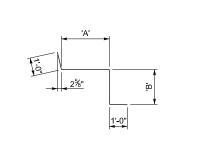
5S05 TOP SLAB 5 40 3'-7" 143'-4" 2'-9"	MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL
	5S05	TOP SLAB	5	40		143'-4"

	MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
	5B01	ANCHOR BLOCK	5	16	4'-4"	69'-4"	1'-0"	0'-10"
5B02 ANCHOR BLOCK 5 12 3'-5 $rac{1}{4}$ " 41'-3" 0'-7 $rac{1}{4}$ " 0'-7'	5B02	ANCHOR BLOCK	5	12	3'-5 1/4"	41'-3"	0'-7 1/4"	0'-7"



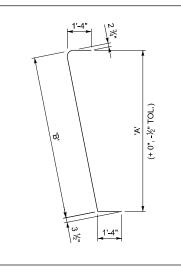
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	2'-9"
5B03	ANCHOR BLOCK	5	28	4'-1"	114'-4"]
						<u>5</u>
						<u> </u>

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
6B01a	ANCHOR BLOCK	6	4	6'-7 ¾"	26'-7"	2'-9 1/8"	1'-10 %"
6B01b	ANCHOR BLOCK	6	4	6'-6 ½"	26'-2"	2'-9 %"	1'-9 1/8"
6B01c	ANCHOR BLOCK	6	4	6'-5 ¼"	25'-9"	2'-9 %"	1'-7 %"
6B01d	ANCHOR BLOCK	6	4	6'-4"	25'-4"	2'-9 %"	1'-6 1/8"
6B01e	ANCHOR BLOCK	6	4	6'-2 %"	24'-10 ½"	2'-10 %"	1'-4 ½"
6B01f	ANCHOR BLOCK	6	4	6'-1 ¾"	24'-5 ½"	2'-10 %"	1'-3"
6B01g	ANCHOR BLOCK	6	4	6'-0 %"	24'-0 ½"	2'-10 %"	1'-1 ½"
6B01h	ANCHOR BLOCK	6	4	5'-11"	23'-8"	2'-11"	1'-0"
6B01k	ANCHOR BLOCK	6	4	5'-9 %"	23'-2 ½"	2'-11 1/4"	0'-10 %"
6B01m	ANCHOR BLOCK	6	4	5'-8 ¾"	22'-9 ½"	2'-11 ½"	0'-8 %"
6B01n	ANCHOR BLOCK	6	4	5'-7 %"	22'-4 ½"	2'-11 ¾"	0'-7 %"

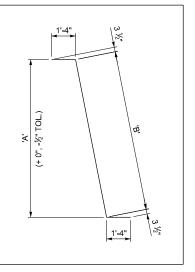


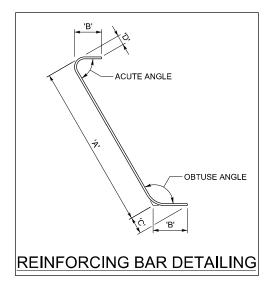
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	3 ½"
6B02	ANCHOR BLOCK	6	12	9'-6 ¾"	114'-9"	6:-10"
						90.8° —

MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
8S01a	1	WEBS	8	2	13'-3 7/8"	26'-7 7/8"	10'-5 3/4"	10'-7 7/8"
8S01b	2	WEBS	8	2	13'-3 1/2"	26'-7"	10'-5 3/8"	10'-7 1/2"
8S01c	3	WEBS	8	2	13'-3 1/8"	26'-6 1/4"	10'-5"	10'-7 1/8"
8S01d	4	WEBS	8	2	13'-2 3/4"	26'-5 1/2"	10'-4 5/8"	10'-6 3/4"
8S01e	5	WEBS	8	2	13'-2 3/8"	26'-4 3/4"	10'-4 1/4"	10'-6 3/8"
8S01f	6	WEBS	8	2	13'-2"	26'-4"	10'-3 7/8"	10'-6"
8S01g	7	WEBS	8	2	13'-1 5/8"	26'-3 1/4"	10'-3 1/2"	10'-5 5/8"
8S01h	8	WEBS	8	2	13'-1 1/4"	26'-2 1/2"	10'-3 1/8"	10'-5 1/4"
8S01j	9	WEBS	8	2	13'-0 7/8"	26'-1 3/4"	10'-2 7/8"	10'-4 7/8"
8S01k	10	WEBS	8	2	13'-0 1/2"	26'-1"	10'-2 1/2"	10'-4 1/2"
8S01m	11	WEBS	8	2	13'-0 1/8"	26'-0 1/4"	10'-2 1/8"	10'-4 1/8"
8S01n	12	WEBS	8	2	12'-11 3/4"	25'-11 3/8"	10'-1 3/4"	10'-3 3/4"
8S01p	13	WEBS	8	2	12'-11 3/8"	25'-10 5/8"	10'-1 3/8"	10'-3 3/8"
8S01q	14	WEBS	8	2	12'-11"	25'-9 7/8"	10'-1"	10'-3"
8S01r	15	WEBS	8	2	12'-10 5/8"	25'-9 1/8"	10'-0 5/8"	10'-2 5/8"
8S01s	16	WEBS	8	2	12'-10 1/4"	25'-8 3/8"	10'-0 1/4"	10'-2 1/4"
8S01t	17	WEBS	8	2	12'-9 3/4"	25'-7 5/8"	9'-11 7/8"	10'-1 7/8"
8S01u	18	WEBS	8	2	12'-9 3/8"	25'-6 7/8"	9'-11 1/2"	10'-1 1/2"
8S01v	19	WEBS	8	2	12'-9"	25'-6 1/8"	9'-11 1/8"	10'-1"
8S01w	20	WEBS	8	2	12'-8 5/8"	25'-5 3/8"	9'-10 3/4"	10'-0 5/8"



MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
8S02a	1	WEBS	8	2	13'-4 3/4"	26'-9 3/8"	10'-5 3/4"	10'-8 3/4"
8S02b	2	WEBS	8	2	13'-4 3/8"	26'-8 5/8"	10'-5 3/8"	10'-8 3/8"
8S02c	3	WEBS	8	2	13'-4"	26'-7 7/8"	10'-5"	10'-8"
8S02d	4	WEBS	8	2	13'-3 1/2"	26'-7 1/8"	10'-4 5/8"	10'-7 5/8"
8S02e	5	WEBS	8	2	13'-3 1/8"	26'-6 3/8"	10'-4 1/4"	10'-7 1/8"
8S02f	6	WEBS	8	2	13'-2 3/4"	26'-5 5/8"	10'-3 7/8"	10'-6 3/4"
8S02g	7	WEBS	8	2	13'-2 3/8"	26'-4 7/8"	10'-3 1/2"	10'-6 3/8"
8S02h	8	WEBS	8	2	13'-2"	26'-4 1/8"	10'-3 1/8"	10'-6"
8S02j	9	WEBS	8	2	13'-1 5/8"	26'-3 1/4"	10'-2 7/8"	10'-5 5/8"
8S02k	10	WEBS	8	2	13'-1 1/4"	26'-2 1/2"	10'-2 1/2"	10'-5 1/4"
8S02m	11	WEBS	8	2	13'-0 7/8"	26'-1 3/4"	10'-2 1/8"	10'-4 7/8"
8S02n	12	WEBS	8	2	13'-0 1/2"	26'-1"	10'-1 3/4"	10'-4 1/2"
8S02p	13	WEBS	8	2	13'-0 1/8"	26'-0 1/4"	10'-1 3/8"	10'-4 1/8"
8S02q	14	WEBS	8	2	12'-11 3/4"	25'-11 1/2"	10'-1"	10'-3 3/4"
8S02r	15	WEBS	8	2	12'-11 3/8"	25'-10 3/4"	10'-0 5/8"	10'-3 3/8"
8S02s	16	WEBS	8	2	12'-11"	25'-10"	10'-0 1/4"	10'-3"
8S02t	17	WEBS	8	2	12'-10 5/8"	25'-9 1/4"	9'-11 7/8"	10'-2 5/8"
8S02u	18	WEBS	8	2	12'-10 1/4"	25'-8 1/2"	9'-11 1/2"	10'-2 1/4"
8S02v	19	WEBS	8	2	12'-9 7/8"	25'-7 5/8"	9'-11 1/8"	10'-1 7/8"
8S02w	20	WEBS	8	2	12'-9 1/2"	25'-6 7/8"	9'-10 3/4"	10'-1 1/2"





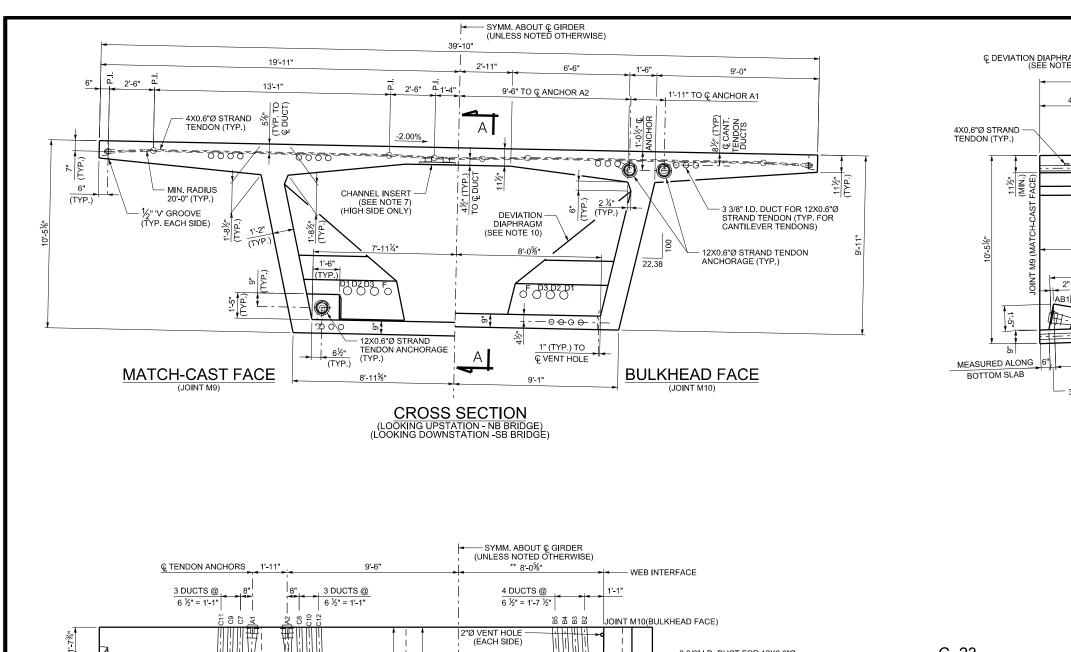


ESTIMATED QUANTITIES - ONE SEGMENT TYPE	8M	
ITEM DESCRIPTION:	UNIT	QUANTITY
REINFORCING STEEL - COATED (PLAN QUANTITY)	LB	9,601
STRUCTURAL CONCRETE AA(B6)(AE) (FOR INFORMATION ONLY)	CY	53.6
POST-TENSIONING STEEL STRAND (TRANSVERSE) (PLAN QUANTITY)	LB	575

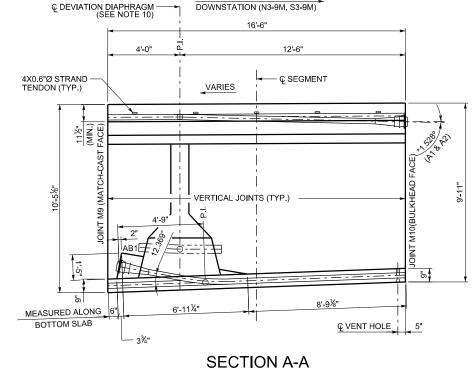
NOTE

- 1. THIS DRAWING VALID FOR SEGMENTS N2-8M, S2-8M, N3-8M AND S3-8M.
- 2. ALL REINFORCING STEEL IS EPOXY COATED.
- 3. PROVIDE BAR BENDS IN ACCORDANCE WITH CRSI. PROVIDE BEND TOLERANCES AS REQUIRED FOR CONSTRUCTION OR AS SHOWN ABOVE FOR BARS 8501& 8502.
- 4. FOR PT ANCHORAGE SPIRAL AND TRANSVERSE LOCAL ZONE REINFORCING, SEE PT QUANT. & STRESSING SCHEDULE SHEET.
- STRUCTURAL CONCRETE VOLUME IS GIVEN AS INFORMATION ONLY. STRUCTURAL CONCRETE IS PAID LUMP SUM.

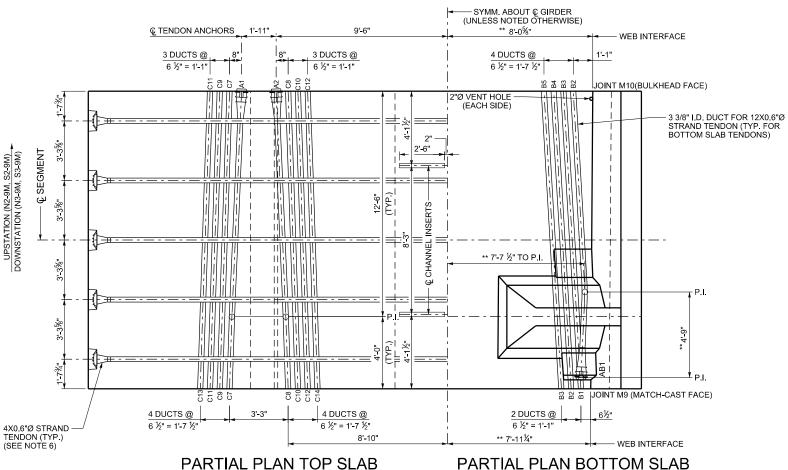
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UTAH DEPARTMENT OF TRANSPORTATION	SALT LAKE CITY, UTAH	STRUCTURES DIVISION		APPROVAL RECOMM	PA A TO	DATE SENIOR DESIGN ENGR.	APPROVED	100 ISE	BY UDOT DATE DATE BRIDGE ENCE	
US-191; OVER COLORADO	HATILANOM BOUIDS BIVID	NIVEN BNIDGE - MOAB UTALL		SEGMENT 8M REINFORCING II				ROJECT RRE-0101/58/120	NUMBER DIN -0131(30)123	
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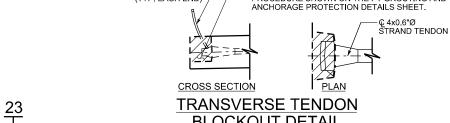


(** MEASURED ALONG BOTTOM SLAB)



UPSTATION (N2-9M, S2-9M)





(TOP SLAB ANGLES SHOWN WITH RESPECT TO TOP OF DECK GRADE)

BLOCKOUT DETAIL

JOINT FACE DUCT POSITION

JOINT M10

C - CANTILEVER DUCT

B - BOTTOM SLAB DUCT

JOINT M9

DUCT DEVIATIONS

1 880°

1.880°

2.657°

|3.360°|

3.360°

3.360°

JOINT M10

DUCT POSITION

A1

A2

B2

В3

2.452°

2.452°

3.360°

3.360°

B4 3.360°

B5 3.360°

DUCT DEVIATION

SCHEMATIC

DUCT POSITION

C7

C8

AB1

B1

B2

В3

DUCT LEGEND

½"Ø GROUT TUBE-WITH GROUT VALVE

(TYP. EACH END)

- 1. THIS DRAWING VALID FOR SEGMENT N2-9M, S2-9M, N3-9M AND S3-9M.
- 2. ALL TRANSVERSE DIMENSIONS ARE MEASURED ALONG SLOPE OF DECK.
- 3. FOR BULKHEAD DETAILS, SEE BULKHEAD DETAILS SHEET.
- 4. SEGMENT CONCRETE IS STRUCTURAL CONCRETE AA(B6)(AE),

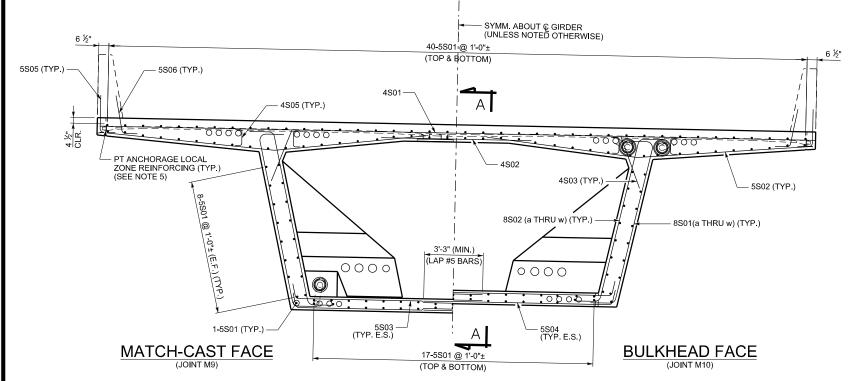
- AFTER TENDONS ARE STRESSED, BLOCKOUT IS FILLED IN ACCORDANCE WITH THE PROCEDURE SHOWN ON THE PT GROUTING AND

- * 5. POSITIVE ANGLE DENOTES TENDON DEVIATING TO UPPER POSITION NEGATIVE ANGLE DENOTES TENDON DEVIATING TO LOWER POSITION.
- 6. AFTER THE CONCRETE REACHES A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI, AND PRIOR TO RELEASING FORMWORK OR ADVANCING FORM TRAVELER, STRESS TRANSVERSE 0.6"Ø STRANDS TO 44 KIPS EACH. THE TENDONS ARE SINGLE END STRESSED FROM ALTERNATING SIDES OF THE DECK.
- 7. PROVIDE GALVANIZED OR STAINLESS STEEL CHANNEL INSERTS WITH AN ALLOWABLE CAPACITY OF 1500 LBS/FT. CHANNEL INSERTS ARE INCIDENTAL TO STRUCTURAL CONCRETE
- 8. FOR LONGITUDINAL PT STRESSING AND GROUTING DETAILS, SEE LONGITUDINAL PT LAYOUT SHEETS, PT QUANT. & STRESSING SCHEDULE SHEET & PT GROUTING AND PROTECTION DET. SHEET.
- 9. ALL LONGITUDINAL TOP AND BOTTOM SLAB TENDONS ARE 12x0.6"Ø STRAND TENDONS. PROVIDE 12-0" MINIMUM DUCT RADIUS IN THE TRUE 3D PLANE OF THE DUCT CURVE.
- 10. FOR DEVIATION DIAPHRAGM DETAILS, SEE SEGMENT 9M REINFORCING II SHEET
- 11. DRAPED TENDONS ARE 27X0.6" Ø STRAND TENDONS FUTURE TENDONS ARE 19X0.6" Ø STRAND TENDONS

SEGMENT 9M DIMS & PT DETAILS PROJECT BRF-0191(58)129	GRAND COUNTY
	GRAND COUNTY

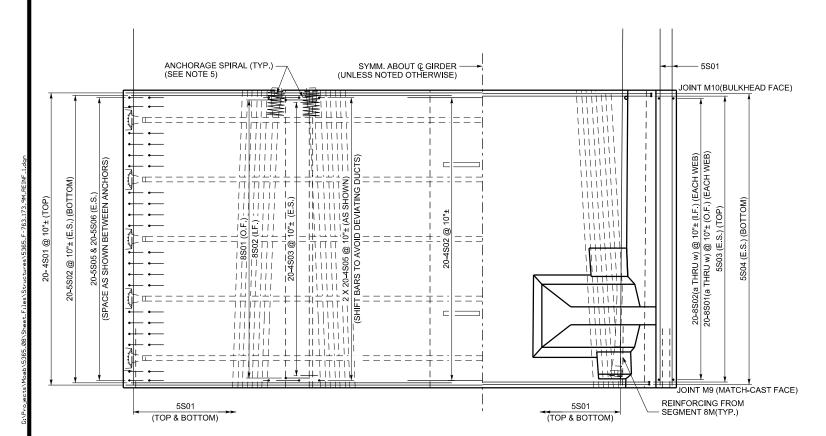
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RANSPORTATION



CROSS SECTION

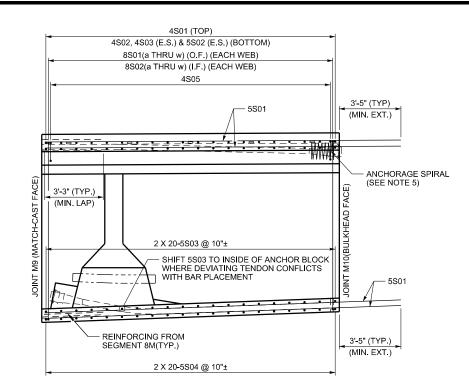
(DEVIATION DIAPHRAGM REINFORCING NOT SHOWN FOR CLARITY, SEE SEGMENT 9M REINFORCING II SHEET FOR REINFORCING DETAILS)



PARTIAL PLAN TOP SLAB

PARTIAL PLAN BOTTOM SLAB

(DEVIATION DIAPHRAGM REINFORCING NOT SHOWN FOR CLARITY, SEE SEGMENT 9M REINFORCING II SHEET FOR REINFORCING DETAILS)

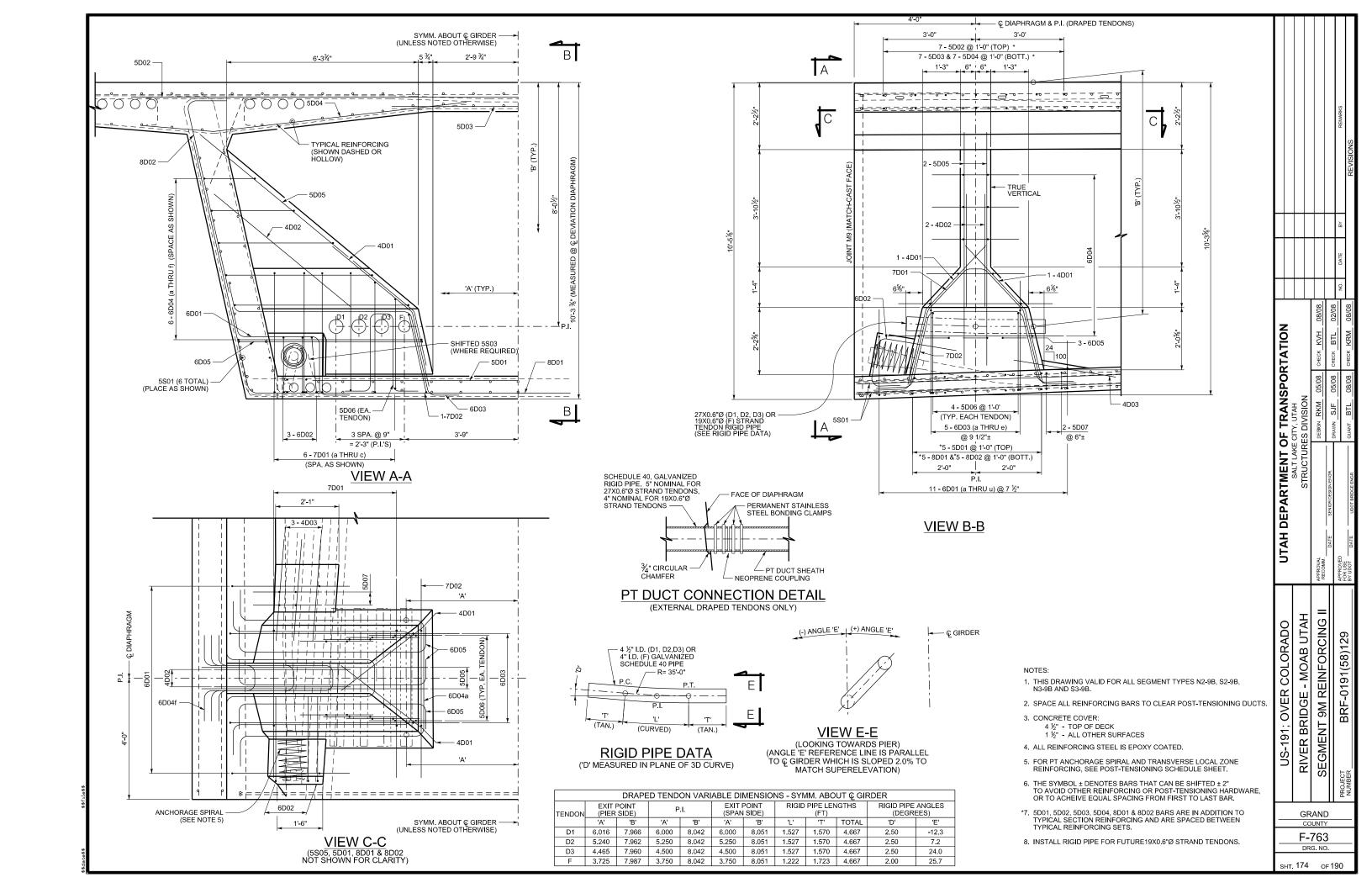


SECTION A-A

(DEVIATION DIAPHRAGM REINFORCING NOT SHOWN FOR CLARITY, SEE SEGMENT 9M REINFORCING II SHEET FOR REINFORCING DETAILS)

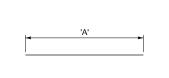
- 1. THIS DRAWING VALID FOR SEGMENTS N2-9M, S2-9M, N3-9M AND S3-9M.
- 2. SPACE ALL REINFORCING BARS TO CLEAR POST-TENSIONING DUCTS
- 3. CONCRETE COVER: 4 ½" TOP OF DECK 1 ½" ALL OTHER SURFACES
- 4. ALL REINFORCING STEEL IS EPOXY COATED.
- 5. FOR PT ANCHORAGE SPIRAL AND TRANSVERSE LOCAL ZONE REINFORCING, SEE PT QUANT. & STRESSING SCHEDULE SHEET.
- 6. THE SYMBOL \pm DENOTES BARS THAT CAN BE SHIFTED \pm 2" TO AVOID OTHER REINFORCING OR POST-TENSIONING HARDWARE, OR TO ACHIEVE EQUAL SPACING FROM FIRST TO LAST BAR.

									REVISIONS	
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_				08/08		02/08			80/80	
TATION				DESIGN BTL 02/08 CHECK DSL 08/08		DRAWN S.IF 02/08 CHECK BTI 02/08			QUANT. BTL 08/08 CHECK KRM 08/08	
TMENT OF TRANSPORT SALT LAKE CITY, UTAH STRUCTURES DIVISION				02/08		02/08			80/80	
				DESIGN BTL		H.C. NWARD			QUANT. BTL	
UTAH DEPARTMENT OF TRANSPORTATION SALTLAKE CITY, UTAH STRUCTURES DIVISION		SIRUCIUR			dough reproduct donard	SENIOR DESIGN ENGR.			UDOT BRIDGE ENGR.	
UTAH				APPROVAL RECOMM	١	DAIE	APPROVED	FOR USE	BY UDOT DATE	
US-191; OVER COLORADO	DIVED RDINGE MOABIITAH	5		SEGMENT 9M REINFORCING I				JEC RFE-(1191/58)129	NUMBER C. CO. CO. CO. CO. CO. CO. CO. CO. CO.	
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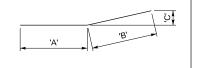
SEGMENT TYPE 9M BAR BENDING SCHEDULE - VALID FOR SEGMENTS N2-9M, S2-9M, N3-9M AND S3-9M.

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'
4S01	TOP SLAB	4	20	39'-7"	791'-8"	39'-7"
4S02	TOP SLAB	4	20	8'-8"	173'-4"	8'-8"
4S03	TOP SLAB	4	40	2'-9"	110'-0"	2'-9"
5S01	SEGMENT	5	160	19'-9 1/2"	3166'-8"	19'-9 1/2"
4D02	DIAPHRAGM	4	4	5'-10"	23'-4"	5'-10"
4D03	DIAPHRAGM	4	6	3'-5"	20'-6"	3'-5"
5D01	BOTTOM SLAB	5	5	13'-8"	68'-4"	13'-8"
5D02	TOP SLAB	5	7	25'-6"	178'-6"	25'-6"
5D03	TOP SLAB	5	7	8'-4"	58'-4"	8'-4"



MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'	<u>α</u>	<u>m</u> ♦
4S05	TOP SLAB	4	80	1'-9"	140'-0"	1'-0"	0'-4 ½"	'Δ'	
6D05	DIAPHRAGM	6	6	8'-0"	48'-0"	6'-0"	1'-0"	√	→

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'	'C'
5S02	TOP SLAB	5	40	18'-5"	736'-8"	8'-8"	9'-9"	1'-11"
4D01	DIAPHRAGM	4	4	5'-11"	23'-8"	3'-5"	2'-6"	1'-6 %"
5D04	TOP SLAB	5	14	10'-10"	151'-8"	8'-5"	2'-5"	0'-5 ¾"
5D05	DIAPHRAGM	5	4	11'-0"	44'-0"	9'-2"	1'-10"	1'-1 ½"

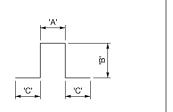


MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'	'C'
5S03	BOTTOM SLAB	5	40				0'-10"	0'-2"
5S04	BOTTOM SLAB	5	40				0'-10"	0'-2"
5S06	TOP SLAB	5	40				0'-10"	0'-2"
8D01	BOTT. SLAB/WEB	8	10	19'-1"	190'-10"		8'-8"	1'-10 ¾"

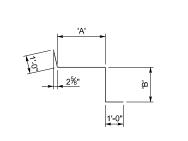
Bi		
'C'	'A'	

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2'-9"	

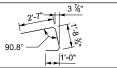
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'	'C'
5D06	DIAPHRAGM	5	32	7'-7"	242'-8	0'-9"	2'-7"	0'-10"
5D07	DIAPHRAGM	5	4	3'-5 ¼"	13-9"	0'-7 1/4"	0'-7"	0'-10"
6D04a	DIAPHRAGM	6	2	17'-8 ½"	35'-5"	3'-8 ½"	6'-0"	1'-0"
6D04b	DIAPHRAGM	6	2	16'-3 ½"	32'-7"	2'-9 ½"	5'-9"	1'-0"
6D04c	DIAPHRAGM	6	2	12'-8 ½"	25'-5"	1'-0 ½"	4'-10"	1'-0"
6D04d	DIAPHRAGM	6	2	10'-4"	20'-8"	0'-9"	3'-9 ½"	1'-0"
6D04e	DIAPHRAGM	6	2	8'-3"	16'-6"	0'-9"	2'-9"	1'-0"
6D04f	DIAPHRAGM	6	2	6'-1"	12'-2"	0'-9"	1'-8"	1'-0"
6D04f	DIAPHRAGM	6	2	6'-1"	12'-2"	0'-9"	1'-8"	



MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
6D01a	DIAPHRAGM	6	2	6'-7 ¾"	13'-3 ½"	2'-9 1/8"	1'-10 %"
6D01b	DIAPHRAGM	6	2	6'-6 ½"	13'-1"	2'-9 %"	1'-9 1/8"
6D01c	DIAPHRAGM	6	2	6'-5 ¼"	12'-10 ½"	2'-9 %"	1'-7 %"
6D01d	DIAPHRAGM	6	2	6'-4"	12'-8"	2'-9 %"	1'-6 1/8"
6D01e	DIAPHRAGM	6	2	6'-2 %"	12'-5 ¼"	2'-10 %"	1'-4 ½"
6D01f	DIAPHRAGM	6	2	6'-1 ¾"	12'-2 ¾"	2'-10 %"	1'-3"
6D01g	DIAPHRAGM	6	2	6'-0 %"	12'-0 ¼"	2'-10 %"	1'-1 ½"
6D01h	DIAPHRAGM	6	2	5'-11"	11'-10"	2'-11"	1'-0"
6D01k	DIAPHRAGM	6	2	5'-9 %"	11'-7 ¼"	2'-11 ¼"	0'-10 %"
6D01m	DIAPHRAGM	6	2	5'-8 ¾"	11'-4 ¾"	2'-11 ½"	0'-8 %"
6D01n	DIAPHRAGM	6	2	5'-7 1/8"	11'-2 ¼"	2'-11 ¾"	0'-7 %"



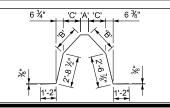
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL
6D02	DIAPHRAGM	6	6	5'-3 ¾"	31'-10 ½"



MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
6D03a	DIAPHRAGM	6	2	10'-8 ¼"	21'-4 ½"	2'-8 1/4"	0'-6 ½"
6D03b	DIAPHRAGM	6	2	10'-7 %"	21'-3 ¾"	2'-7 %"	0'-6 %"
6D03c	DIAPHRAGM	6	2	10'-7 %"	21'-3 ¼"	2'-7 %"	0'-6 ¼"
6D03d	DIAPHRAGM	6	2	10'-7 %"	21'-2 ¾"	2'-7 %"	0'-6 ¼"
6D03e	DIAPHRAGM	6	2	10'-7 %"	21'-2 1/4"	2'-7 1/8"	0'-6 ¼"

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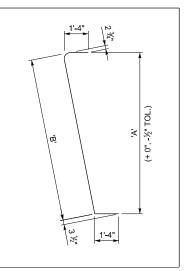
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'	'C'
7D01a	DIAPHRAGM	7	8	11'-10 ¾"	95'-2"	0'-8 %"	1'-9 %"	1'-2 %"
7D01b	DIAPHRAGM	7	2	11'-8 ¾"	23'-5 ½"	1'-1 1/8"	1'-6 1/8"	1'-0 %"
7D01c	DIAPHRAGM	7	2	11'-2 ¾"	22'-4 ¾"	2'-3"	0'-8"	0'-5 ½"
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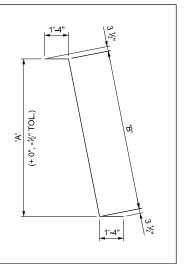
7D00 DIADUDAGM 7 0 101 = 5/11					MARK
7002 DIAPHRAGM 7 2 10-7 %"	10'-7 %" 21'-3 ¼"	2	7	DIAPHRAGM	7D02

6 ½"	3'-2 ½"	6 1/8"	
**************************************	2.5 %	<u>*</u>	

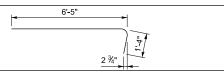
MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
8S01a	1	WEBS	8	2			9'-10 3/8"	
8S01b	1	WEBS	8	2			9'-10 1/8"	
8S01c	2	WEBS	8	2			9'-9 1/2"	
8S01d	2	WEBS	8	2			9'-9 1/2"	
8S01e	3	WEBS	8	2			9'-8 7/8"	
8S01f	3	WEBS	8	2			9'-8 7/8"	
8S01g	4	WEBS	8	2			9'-8 1/4"	
8S01h	4	WEBS	8	2			9'-8 1/4"	
8S01j	5	WEBS	8	2			9'-7 5/8"	
8S01k	5	WEBS	8	2			9'-7 5/8"	
8S01m	6	WEBS	8	2			9'-7"	
8S01n	6	WEBS	8	2			9'-7"	
8S01p	7	WEBS	8	2			9'-6 3/8"	
8S01q	7	WEBS	8	2			9'-6 3/8"	
8S01r	8	WEBS	8	2			9'-5 3/4"	
8S01s	8	WEBS	8	2			9'-5 3/4"	
8S01t	9	WEBS	8	2			9'-5 1/8"	
8S01u	9	WEBS	8	2			9'-5 1/8"	
8S01v	10	WEBS	8	2			9'-4 5/8"	
8S01w	10	WEBS	8	2			9'-4 5/8"	

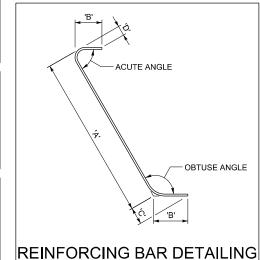


MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
8S02a	1	WEBS	8	2				
8S02b	1	WEBS	8	2				
8S02c	2	WEBS	8	2				
8S02d	2	WEBS	8	2				
8S02e	3	WEBS	8	2				
8S02f	3	WEBS	8	2				
8S02g	4	WEBS	8	2				
8S02h	4	WEBS	8	2				
8S02j	5	WEBS	8	2				
8S02k	5	WEBS	8	2				
8S02m	6	WEBS	8	2				
8S02n	6	WEBS	8	2				
8S02p	7	WEBS	8	2				
8S02q	7	WEBS	8	2				
8S02r	8	WEBS	8	2				
8S02s	8	WEBS	8	2				
8S02t	9	WEBS	8	2				
8S02u	9	WEBS	8	2				
8S02v	10	WEBS	8	2				
8S02w	10	WEBS	8	2				



MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL
8D02	WEB	8	10	7'-9"	77'-6"





STRUCTURAL CONCRETE AA(B6)(AE) (FOR INFORMATION ONLY) POST-TENSIONING STEEL STRAND (TRANSVERSE) (PLAN QUANTITY) LB 575

ITEM DESCRIPTION:

LEGEND

BAR NUMBER B - ANCHOR BLOCK
- D - DEVIATOR
S - SEGMENT

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NOTES: 1. THIS DRAWING VALID FOR ALL SEGMENT TYPES N2-9M, S2-9M, N3-9M AND S3-9M.

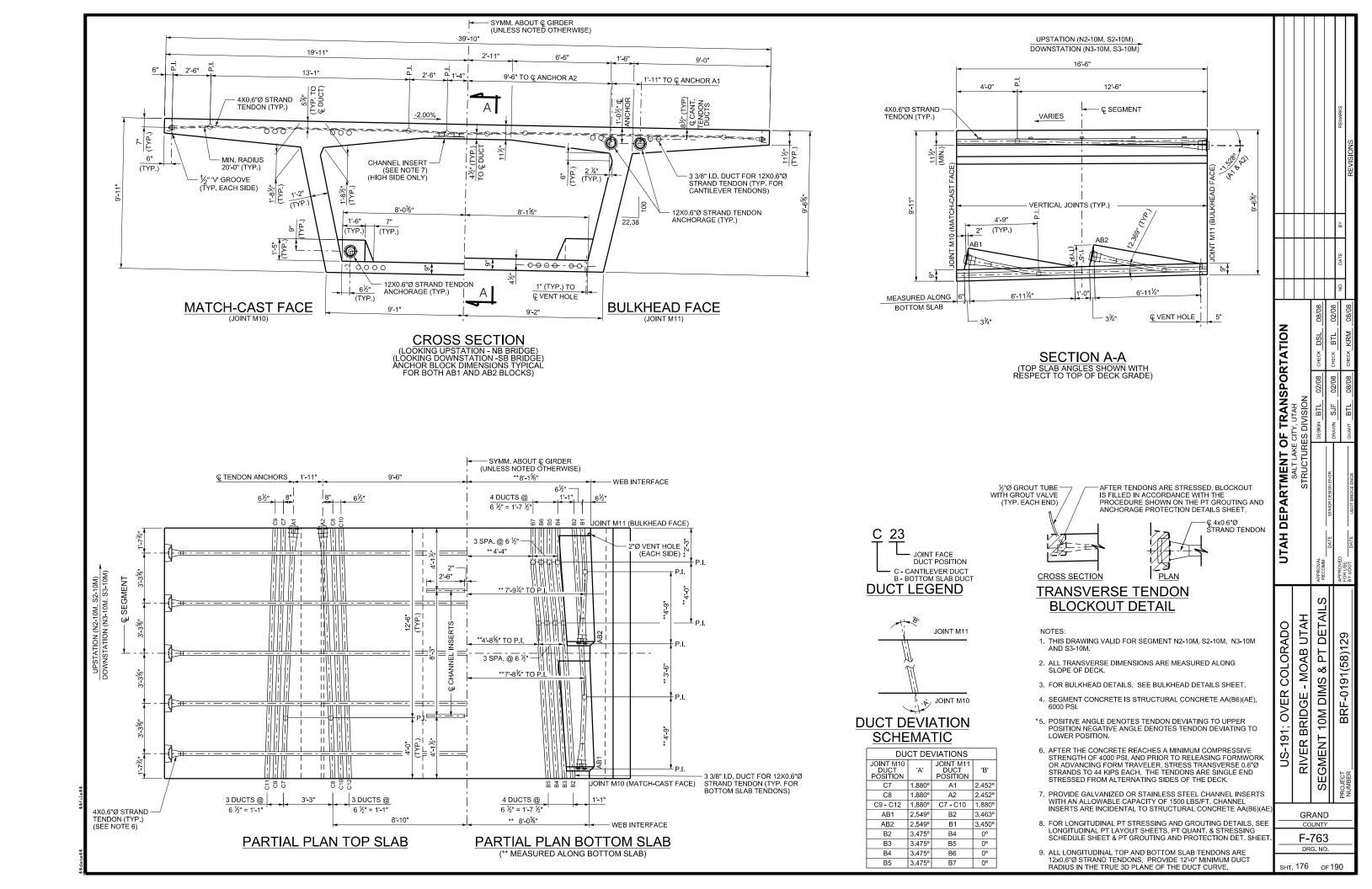
ESTIMATED QUANTITIES - ONE SEGMENT TYPE 9M

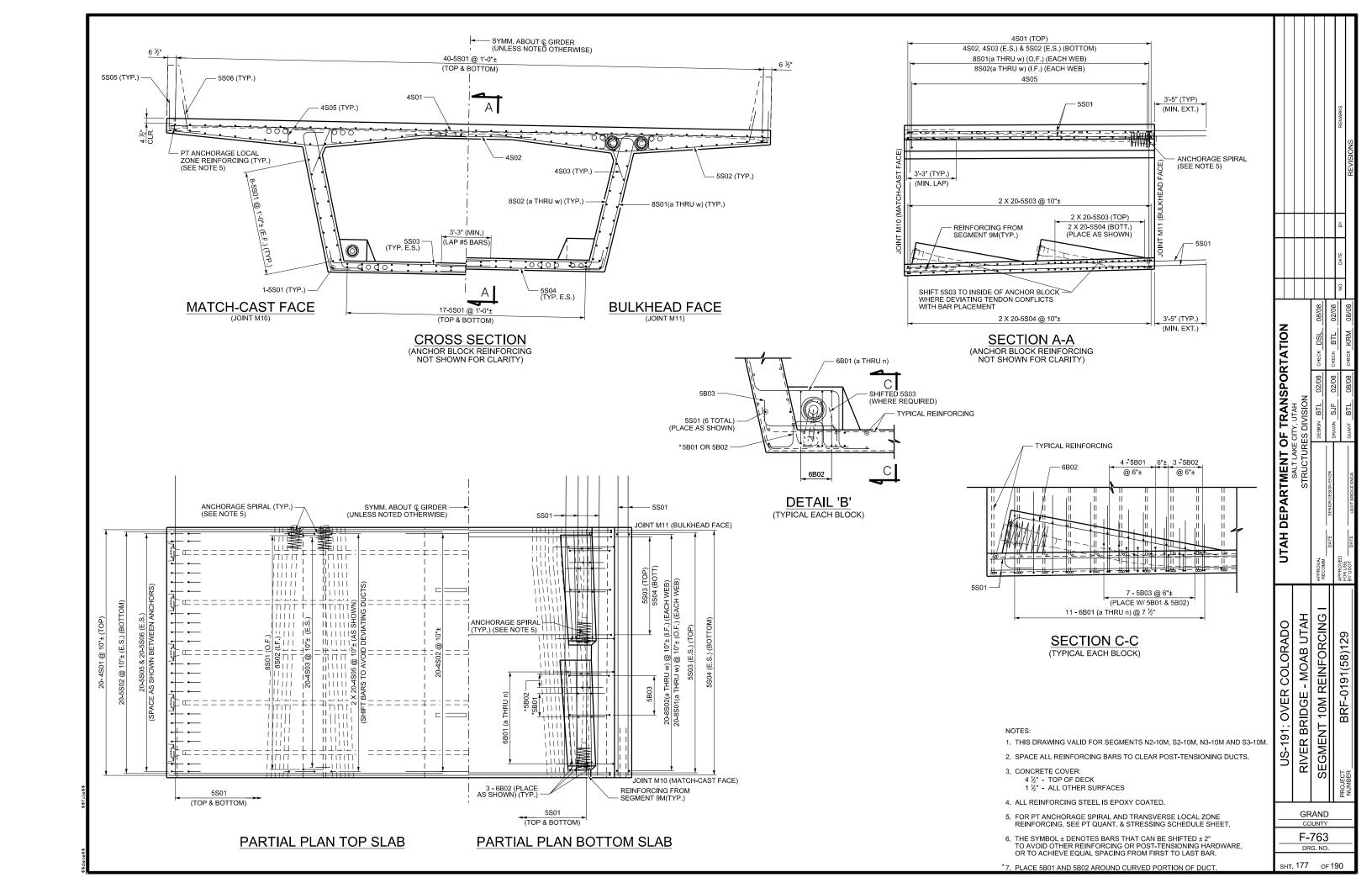
2. ALL REINFORCING STEEL IS EPOXY COATED.

REINFORCING STEEL - COATED (PLAN QUANTITY)

- 3. PROVIDE BAR BENDS IN ACCORDANCE WITH CRSI. PROVIDE BEND TOLERANCES AS REQUIRED FOR CONSTRUCTION OR AS SHOWN ABOVE FOR BARS 8501& 8502
- FOR PT ANCHORAGE SPIRAL AND TRANSVERSE LOCAL ZONE REINFORCING, SEE PT QUANT. & STRESSING SCHEDULE SHEET.
- 5. STRUCTURAL CONCRETE VOLUME IS GIVEN AS INFORMATION ONLY. STRUCTURAL SHT. 175 OF 190

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	NOITATAGASINAAT 30 TINBMTAAABA UATII		SAEL LANE CILT, OLAH STELLINES DIVISION	DIDONIS	APPROVAL RECOMM.	DATE SENIOR DESIGN ENGR.	APPROVED	BY UDOT DATE UDOT BRIDGE ENGR.
E 9M UNIT QUANTITY LB 11,386 CY 56.7 ') LB 575 N3-9M AND S3-9M.	000000000000000000000000000000000000000	US-191; OVER COLORADO	BIVER BRIDGE - MOAB LITAH	וויין ט סאטואן - אטטואומ אואן אואן	SEGMENT 9M REINFORCING III		DDE 0404/60/400	
END TOLERANCES R BARS 8S01& 8S02.	_		(COL	ANI 'TNL	Y		
REINFORCING, SEE	_			ORC	76 (Б. NC			4
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SEGMENT TYPE 10M BAR BENDING SCHEDULE - VALID FOR SEGMENTS N2-10M, S2-10M, N3-10M AND S3-10M.

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'
4S01	TOP SLAB	4	20	39'-7"		39'-7"
4S02	TOP SLAB	4	20	8'-8"		8'-8"
4S03	TOP SLAB	4	40	2'-9"		2'-9"
5S01	SEGMENT	5	160	19'-9 1/2"		19'-9 1/2"

MARK LO	CATION SIZE	E NUM	LENGTH	TOTAL	
4S05 TO		80	1'-9"	140'-0"	½ 1'_0"

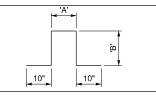
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL
5S02	TOP SLAB	5	40	18'-5"	736'-8"

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'
5S03	BOTTOM SLAB	5	56			
5S04	BOTTOM SLAB	5	56			
5S06	TOP SLAB	5	40			

1	10°		
2"_	←	'A'	

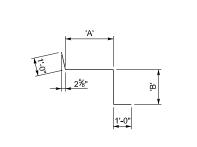
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	<u></u> 5.
5805	TOP SLAB	5	40	3'-7"	143'-4"	2' 0"
						<u>2"-9"</u> →

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'	
5B01	ANCHOR BLOCK	5	16	4'-4"	69'-4"	1'-0"	0'-10"]
5B02	ANCHOR BLOCK	5	12	3'-5 1/4"	41'-3"	0'-7 1/4"	0'-7"]
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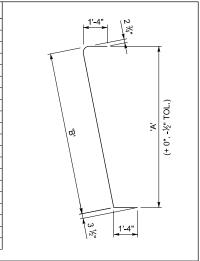
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	2'-9"
5B03	ANCHOR BLOCK	5	28	4'-1"	114'-4"]
						<u>5</u> 0

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
6B01a	ANCHOR BLOCK	6	4	6'-7 ¾"	26'-7"	2'-9 1/8"	1'-10 %"
6B01b	ANCHOR BLOCK	6	4	6'-6 ½"	26'-2"	2'-9 %"	1'-9 1/8"
6B01c	ANCHOR BLOCK	6	4	6'-5 ¼"	25'-9"	2'-9 %"	1'-7 %"
6B01d	ANCHOR BLOCK	6	4	6'-4"	25'-4"	2'-9 %"	1'-6 1/8"
6B01e	ANCHOR BLOCK	6	4	6'-2 %"	24'-10 ½"	2'-10 %"	1'-4 ½"
6B01f	ANCHOR BLOCK	6	4	6'-1 ¾"	24'-5 ½"	2'-10 %"	1'-3"
6B01g	ANCHOR BLOCK	6	4	6'-0 1/8"	24'-0 ½"	2'-10 %"	1'-1 ½"
6B01h	ANCHOR BLOCK	6	4	5'-11"	23'-8"	2'-11"	1'-0"
6B01k	ANCHOR BLOCK	6	4	5'-9 %"	23'-2 ½"	2'-11 1/4"	0'-10 %"
6B01m	ANCHOR BLOCK	6	4	5'-8 ¾"	22'-9 ½"	2'-11 ½"	0'-8 %"
6B01n	ANCHOR BLOCK	6	4	5'-7 1/8"	22'-4 ½"	2'-11 ¾"	0'-7 %"

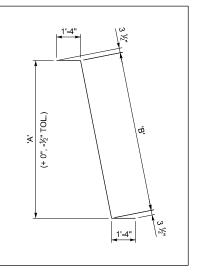


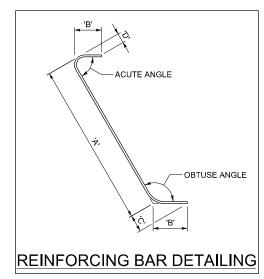
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL
6B02	ANCHOR BLOCK	6	12	9'-6 ¾"	114'-9"

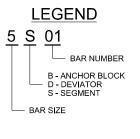
MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
8S01a	1	WEBS	8	2				
8S01b	1	WEBS	8	2				
8S01c	1	WEBS	8	2				
8S01d	2	WEBS	8	2				
8S01e	2	WEBS	8	2				
8S01f	2	WEBS	8	2				
8S01g	3	WEBS	8	2				
8S01h	3	WEBS	8	2				
8S01j	3	WEBS	8	2				
8S01k	4	WEBS	8	2				
8S01m	4	WEBS	8	2				
8S01n	4	WEBS	8	2				
8S01p	5	WEBS	8	2				
8S01q	5	WEBS	8	2				
8S01r	5	WEBS	8	2				
8S01s	6	WEBS	8	2				
8S01t	6	WEBS	8	2				
8S01u	6	WEBS	8	2				
8S01v	7	WEBS	8	2				
8S01w	7	WEBS	8	2				



MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
8S02a	1	WEBS	8	2				
8S02b	1	WEBS	8	2				
8S02c	1	WEBS	8	2				
8S02d	2	WEBS	8	2				
8S02e	2	WEBS	8	2				
8S02f	2	WEBS	8	2				
8S02g	3	WEBS	8	2				
8S02h	3	WEBS	8	2				
8S02j	3	WEBS	8	2				
8S02k	4	WEBS	8	2				
8S02m	4	WEBS	8	2				
8S02n	4	WEBS	8	2				
8S02p	5	WEBS	8	2				
8S02q	5	WEBS	8	2				
8S02r	5	WEBS	8	2				
8S02s	6	WEBS	8	2				
8S02t	6	WEBS	8	2				
8S02u	6	WEBS	8	2				
8S02v	7	WEBS	8	2				
8S02w	7	WEBS	8	2				





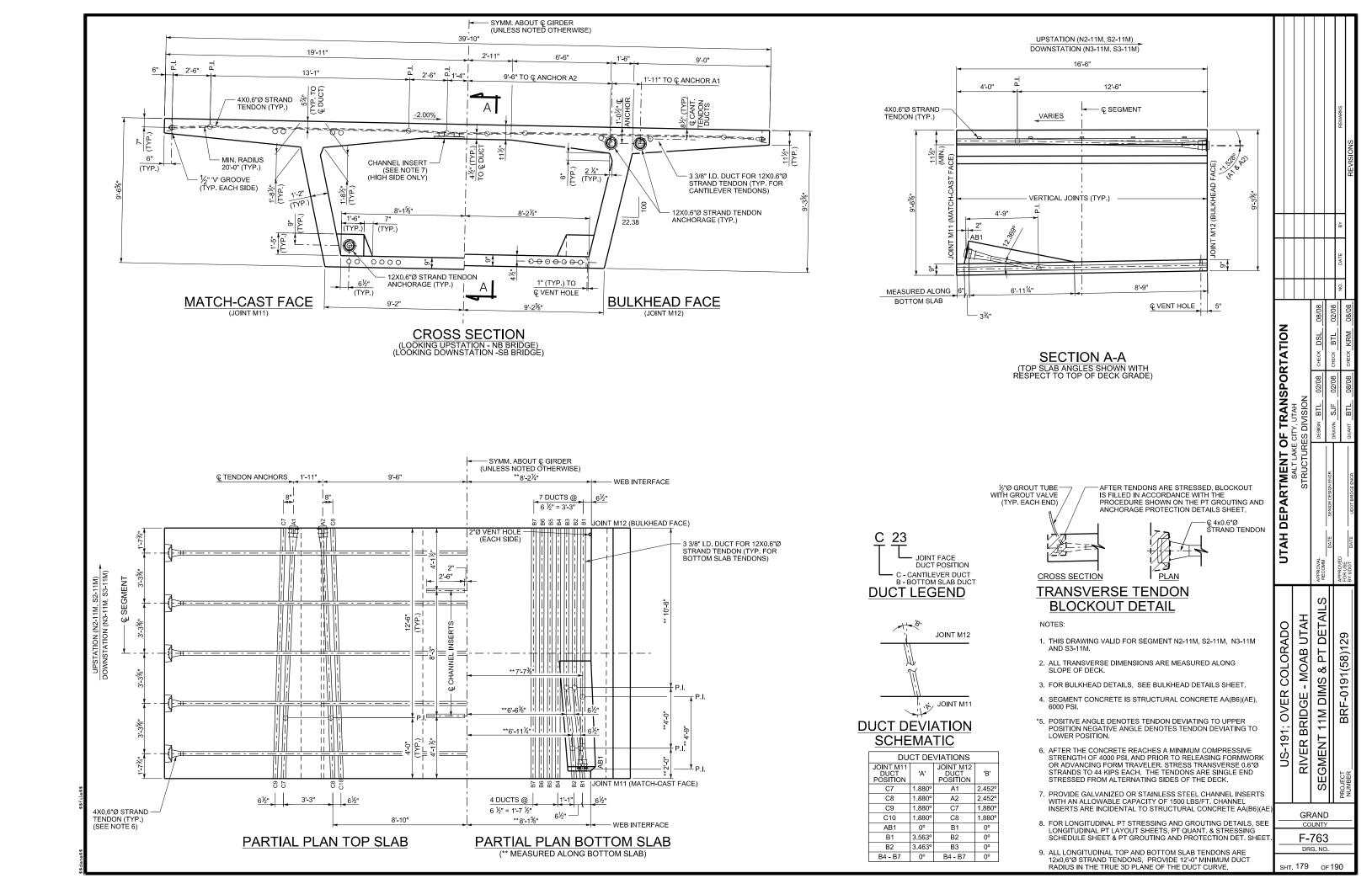


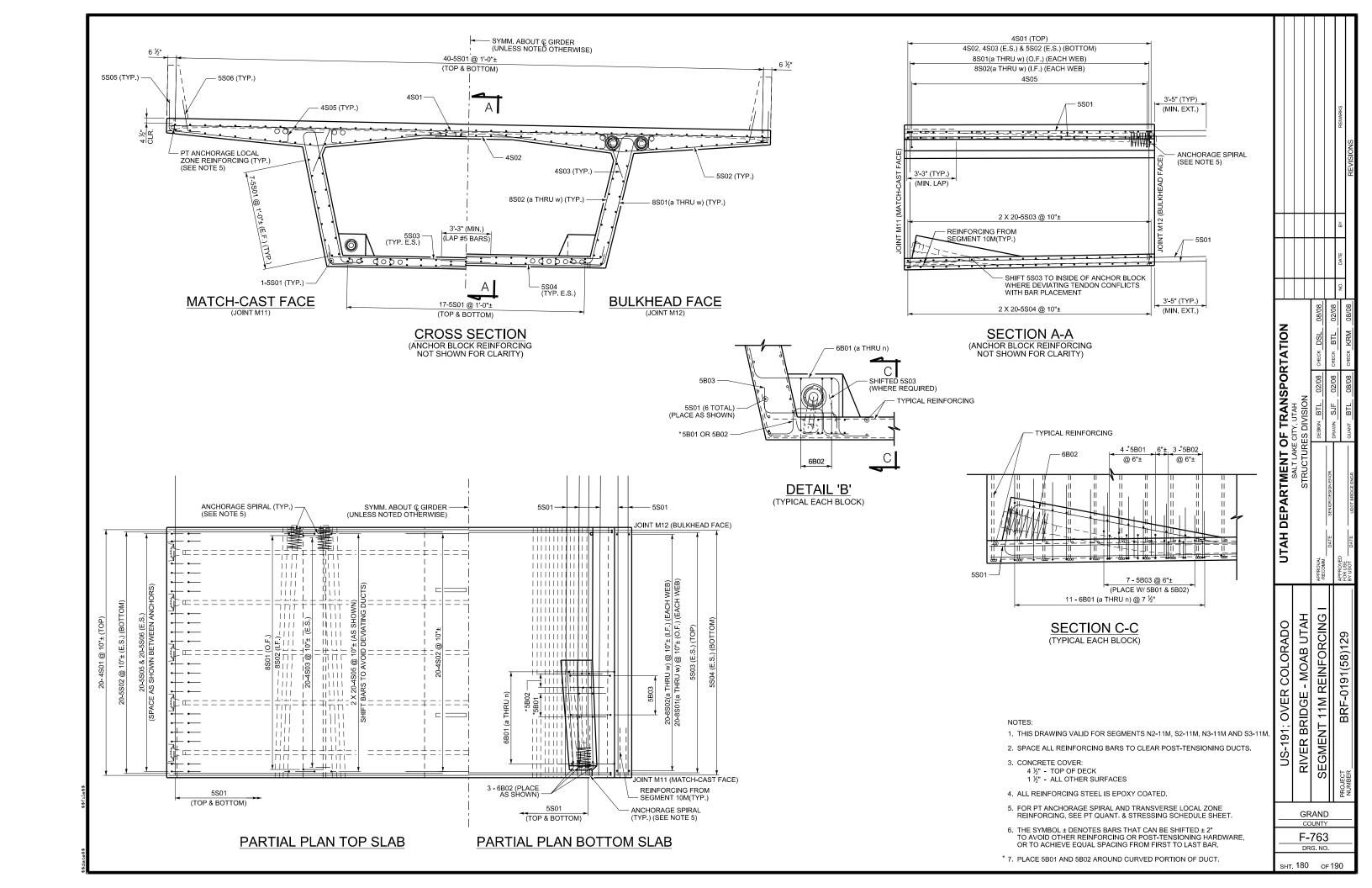
ESTIMATED QUANTITIES - ONE SEGMENT TYPE 10M								
ITEM DESCRIPTION:	UNIT	QUANTITY						
REINFORCING STEEL - COATED (PLAN QUANTITY)	LB	9,742						
STRUCTURAL CONCRETE AA(B6)(AE) (FOR INFORMATION ONLY)	CY	52.4						
POST-TENSIONING STEEL STRAND (TRANSVERSE) (PLAN QUANTITY)	LB	575						

NOTE

- 1. THIS DRAWING VALID FOR SEGMENTS N2-10M, S2-10M, N3-10M AND S3-10M.
- 2. ALL REINFORCING STEEL IS EPOXY COATED.
- 3. PROVIDE BAR BENDS IN ACCORDANCE WITH CRSI. PROVIDE BEND TOLERANCES AS REQUIRED FOR CONSTRUCTION OR AS SHOWN ABOVE FOR BARS 8S01& 8S02.
- 4. FOR PT ANCHORAGE SPIRAL AND TRANSVERSE LOCAL ZONE REINFORCING, SEE PT QUANT. & STRESSING SCHEDULE SHEET.
- STRUCTURAL CONCRETE VOLUME IS GIVEN AS INFORMATION ONLY. STRUCTURAL CONCRETE IS PAID LUMP SUM.

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JIAH DEPARTMENT OF TRANSPORTATION	SALILA	SIRUCIO				DATE SENIOR DESIGN ENGR.			DATE	
5				APPROVAL			APPROVED	FORTISE	BY UDOT	
US-191; OVER COLORADO			SEGMENT 10M REINFORCING II				BBE-0101/58/120			
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SEGMENT TYPE 11M BAR BENDING SCHEDULE - VALID FOR SEGMENTS N2-11M, S2-11M, N3-11M AND S3-11M.

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'
4S01	TOP SLAB	4	20	39'-7"		39'-7"
4S02	TOP SLAB	4	20	8'-8"		8'-8"
4S03	TOP SLAB	4	40	2'-9"		2'-9"
5S01	SEGMENT	5	156	19'-9 1/2"		19'-9 1/2"

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	
4S05	TOP SLAB	4	80	1'-9"	140'-0"	
						4 - 4

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL
5S02	TOP SLAB	5	40	18'-5"	736'-8"

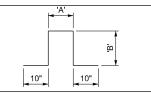
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'
5S03	BOTTOM SLAB	5	40			
5S04	BOTTOM SLAB	5	40			
5S06	TOP SLAB	5	40			

To	:		
2"	'A'	-	

5S05 TOP SLAB 5 40 3'-7" 143'-4"	MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL
	5805	TOP SLAB	5	40		143'-4"

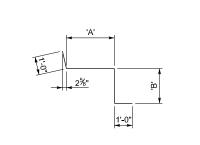
	10,
2'-9"	

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
5B01	ANCHOR BLOCK	5	8	4'-4"	34'-8"	1'-0"	0'-10"
5B02	ANCHOR BLOCK	5	6	3'-5 1/4"	20'-7 ½"	0'-7 1/4"	0'-7"



MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	2'-9"
5B03	ANCHOR BLOCK	5	14	4'-1"	57'-2"]
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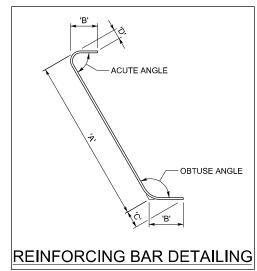
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
6B01a	ANCHOR BLOCK	6	2	6'-7 ¾"	13'-3 ½"	2'-9 1/8"	1'-10 %"
6B01b	ANCHOR BLOCK	6	2	6'-6 ½"	13'-1"	2'-9 %"	1'-9 1/8"
6B01c	ANCHOR BLOCK	6	2	6'-5 ¼"	12'-10 ½"	2'-9 %"	1'-7 %"
6B01d	ANCHOR BLOCK	6	2	6'-4"	12'-8"	2'-9 %"	1'-6 1/8"
6B01e	ANCHOR BLOCK	6	2	6'-2 %"	12'-5 1/4"	2'-10 1/8"	1'-4 ½"
6B01f	ANCHOR BLOCK	6	2	6'-1 ¾"	12'-2 ¾"	2'-10 %"	1'-3"
6B01g	ANCHOR BLOCK	6	2	6'-0 %"	12'-0 1/4"	2'-10 %"	1'-1 ½"
6B01h	ANCHOR BLOCK	6	2	5'-11"	11'-10"	2'-11"	1'-0"
6B01k	ANCHOR BLOCK	6	2	5'-9 %"	11'-7 1/4"	2'-11 1/4"	0'-10 %"
6B01m	ANCHOR BLOCK	6	2	5'-8 ¾"	11'-4 ¾"	2'-11 ½"	0'-8 %"
6B01n	ANCHOR BLOCK	6	2	5'-7 1/8"	11'-2 ¼"	2'-11 ¾"	0'-7 %"

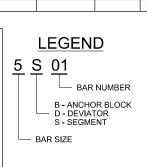


MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL
6B02	ANCHOR BLOCK	6	6	9'-6 ¾"	57'-4 ½"

MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
8S01a	1	WEBS	8	2				
8S01b	1	WEBS	8	2				
8S01c	1	WEBS	8	2				
8S01d	2	WEBS	8	2				
8S01e	2	WEBS	8	2				
8S01f	2	WEBS	8	2				
8S01g	3	WEBS	8	2				
8S01h	3	WEBS	8	2				
8S01j	3	WEBS	8	2				
8S01k	4	WEBS	8	2				
8S01m	4	WEBS	8	2				
8S01n	4	WEBS	8	2				
8S01p	5	WEBS	8	2				
8S01q	5	WEBS	8	2				
8S01r	5	WEBS	8	2				
8S01s	6	WEBS	8	2				
8S01t	6	WEBS	8	2				
8S01u	6	WEBS	8	2				
8S01v	7	WEBS	8	2				
8S01w	7	WEBS	8	2				

MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'	
8S02a	1	WEBS	8	2					1'-
8S02b	1	WEBS	8	2					 -
8S02c	1	WEBS	8	2					
8S02d	2	WEBS	8	2					<u> </u>
8S02e	2	WEBS	8	2					
8S02f	2	WEBS	8	2					
8S02g	3	WEBS	8	2					
8S02h	3	WEBS	8	2					
8S02j	3	WEBS	8	2					TOL.)
8S02k	4	WEBS	8	2					, 'A' 'X' '
8S02m	4	WEBS	8	2					1 1 1 1
8S02n	4	WEBS	8	2					
8S02p	5	WEBS	8	2					t.
8S02q	5	WEBS	8	2					
8S02r	5	WEBS	8	2					
8S02s	6	WEBS	8	2					
8S02t	6	WEBS	8	2					<u> </u>
8S02u	6	WEBS	8	2					
8S02v	7	WEBS	8	2					
8S02w	7	WEBS	8	2					



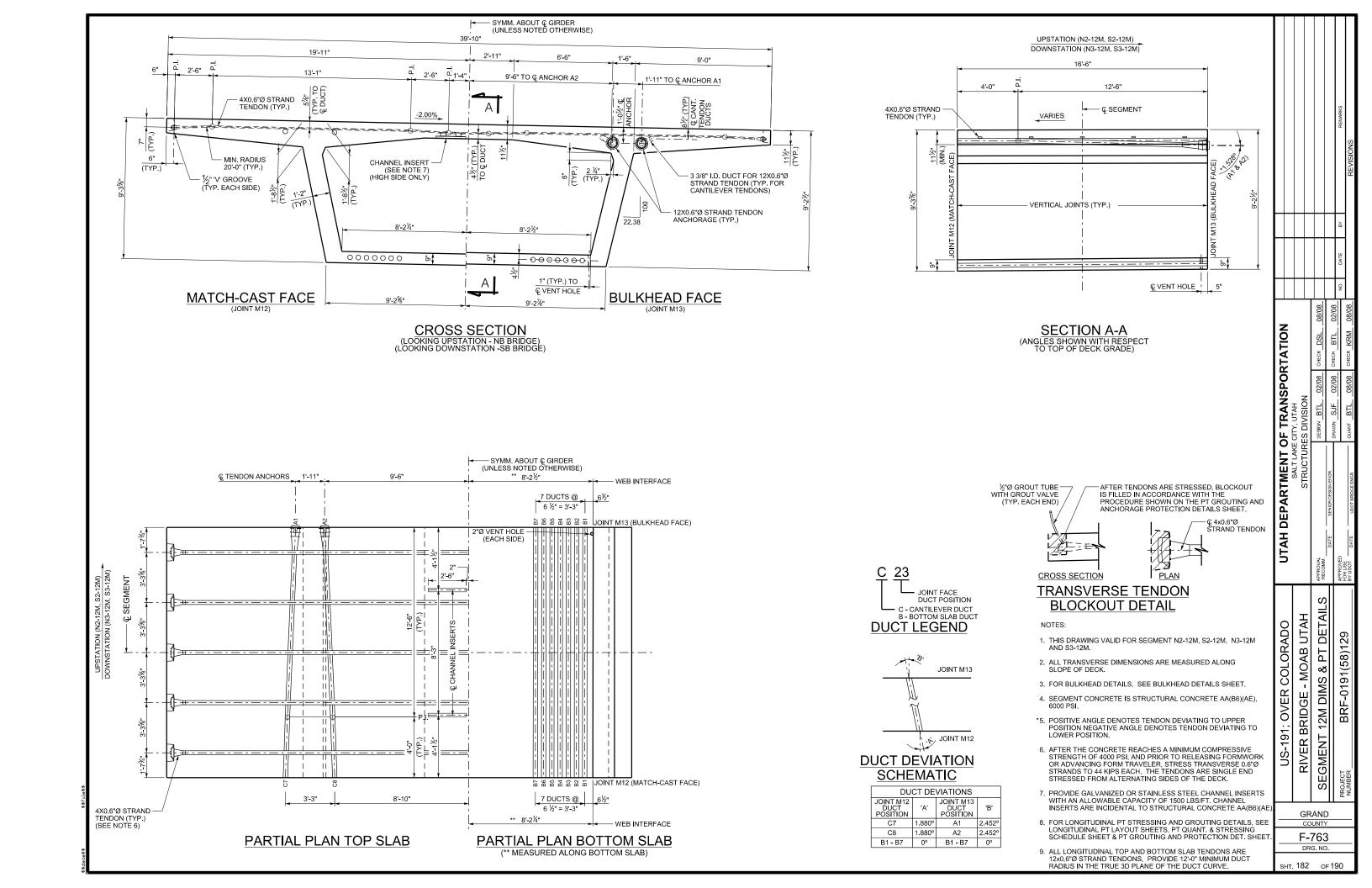


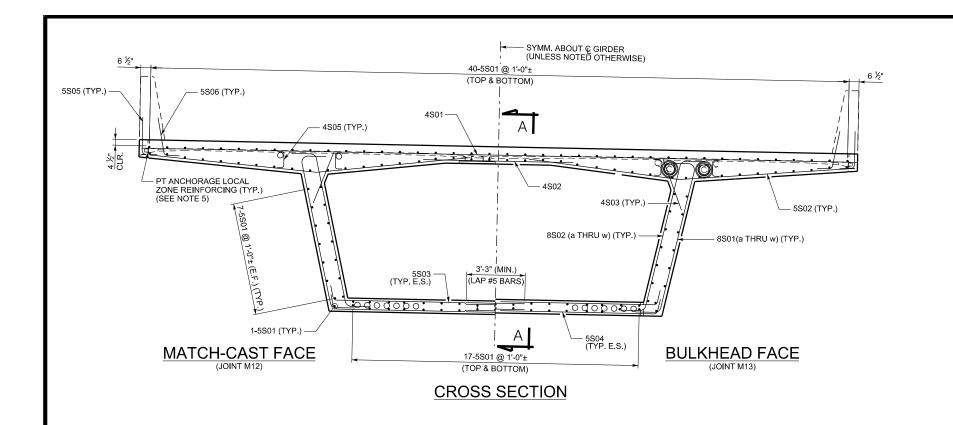
ESTIMATED QUANTITIES - ONE SEGMENT TYPE	I1M	
ITEM DESCRIPTION:	UNIT	QUANTITY
REINFORCING STEEL - COATED (PLAN QUANTITY)	LB	8,890
STRUCTURAL CONCRETE AA(B6)(AE) (FOR INFORMATION ONLY)	CY	51.3
POST-TENSIONING STEEL STRAND (TRANSVERSE) (PLAN QUANTITY)	LB	575

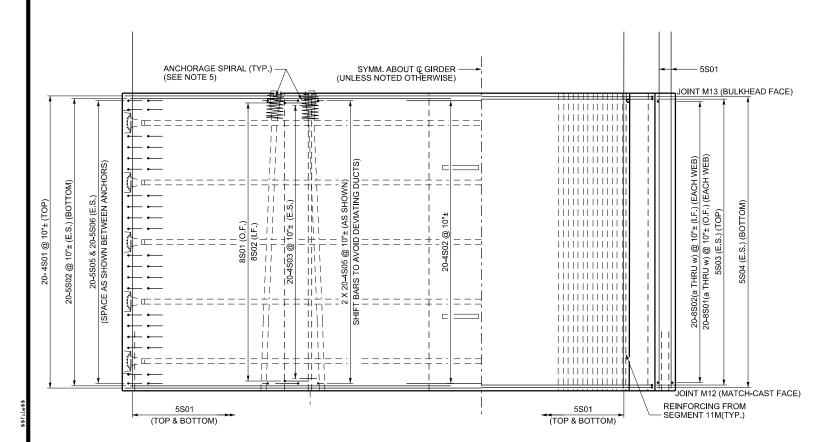
- 1. THIS DRAWING VALID FOR SEGMENTS N2-11M, S2-11M, N3-11M AND S3-11M.
- 2. ALL REINFORCING STEEL IS EPOXY COATED.
- 3. PROVIDE BAR BENDS IN ACCORDANCE WITH CRSI. PROVIDE BEND TOLERANCES AS REQUIRED FOR CONSTRUCTION OR AS SHOWN ABOVE FOR BARS 8501& 8502.
- 4. FOR PT ANCHORAGE SPIRAL AND TRANSVERSE LOCAL ZONE REINFORCING, SEE PT QUANT. & STRESSING SCHEDULE SHEET.

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OF T	ECITY, U.				KE CITY, I			DESIGN		Novo			- QUANT	_
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5				APPROVAL			APPROVED	FORTSE	BY UDOT					
US-191; OVER COLORADO	NIVEN BNIDGE - MOAB UTALL		SEGMENT 11M REINFORCING II				BBE-0101/58/120	621(00)1610-1710						
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STRUCTURAL CONCRETE VOLUME IS GIVEN AS INFORMATION ONLY. STRUCTURAL CONCRETE IS PAID LUMP SUM.

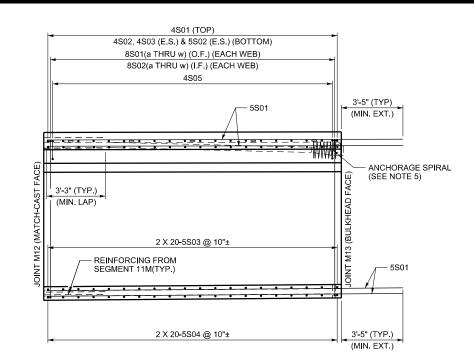






PARTIAL PLAN TOP SLAB

PARTIAL PLAN BOTTOM SLAB



SECTION A-A

NOTE

- 1. THIS DRAWING VALID FOR SEGMENTS N2-12M, S2-12M, N3-12M AND S3-12M.
- 2. SPACE ALL REINFORCING BARS TO CLEAR POST-TENSIONING DUCTS.
- 3. CONCRETE COVER:
 - 4 ½" TOP OF DECK
 - 1½" ALL OTHER SURFACES
- 4. ALL REINFORCING STEEL IS EPOXY COATED.
- 5. FOR PT ANCHORAGE SPIRAL AND TRANSVERSE LOCAL ZONE REINFORCING, SEE PT QUANT. & STRESSING SCHEDULE SHEET.
- 6. THE SYMBOL ± DENOTES BARS THAT CAN BE SHIFTED ± 2"
 TO AVOID OTHER REINFORCING OR POST-TENSIONING HARDWARE,
 OR TO ACHIEVE EQUAL SPACING FROM FIRST TO LAST BAR.

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NSPO	_ Z	<u> </u>		02/08		02/08			. 08/08	
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JTAH DEPARTMENT OF TRANSPORTATION	SALI LAKE CILY, UTAH STRIICTLIBES DIVISION	שוטטאופ			doran reordina domano	SENIOR DESIGN ENGR.			UDOT BRIDGE ENGR.	
ПТАН				APPROVAL RECOMM	L C	DAIE	APPROVED	FOR USE	BY UDOT DATE	
US-191; OVER COLORADO	SIVER BRIDGE - MOABIITAH	וואוט מאטואו - בטמוזומ זו		SEGMENT 12M REINFORGING I				XXT_(101/5X)1/0	21(00)101 101	
-SN	BIVE			M.C.H.C.	<u>-</u>)]			PROJECT	NUMBER	
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SEGMENT TYPE 12M BAR BENDING SCHEDULE - VALID FOR SEGMENTS N2-12M, S2-12M, N3-12M AND S3-12M.

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	, 'A'
4S01	TOP SLAB	4	20	39'-7"		39'-7"]
4S02	TOP SLAB	4	20	8'-8"		8'-8"	<u> </u>
4S03	TOP SLAB	4	40	2'-9"		2'-9"	
5S01	SEGMENT	5	144	19'-9 1/2"		19'-9 1/2"	
							7

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	50 52
4805	TOP SLAB	4	80	1'-9"	140'-0"	7, 4 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7
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MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	9:-9"
5802	TOP SLAB	5	40	18'-5"	736'-8"	
						8'-8"
						

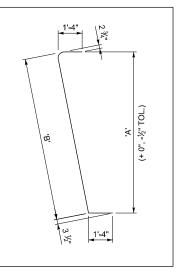
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'
5S03	BOTTOM SLAB	5	40			
5S04	BOTTOM SLAB	5	40			
5806	TOP SLAB	5	40			



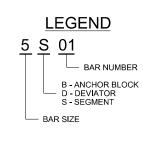
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	
5S05	TOP SLAB	5	40	3'-7"	143'-4"	

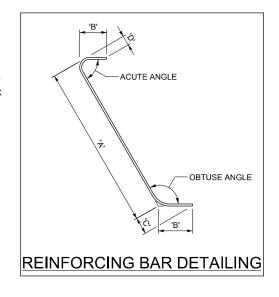
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2'-9"	-	

MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
8S01a	1	WEBS	8	2				
8S01b	1	WEBS	8	2				
8S01c	1	WEBS	8	2				
8S01d	1	WEBS	8	2				
8S01e	2	WEBS	8	2				
8S01f	2	WEBS	8	2				
8S01g	2	WEBS	8	2				
8S01h	2	WEBS	8	2				
8S01j	3	WEBS	8	2				
8S01k	3	WEBS	8	2				
8S01m	3	WEBS	8	2				
8S01n	3	WEBS	8	2				
8S01p	4	WEBS	8	2				
8S01q	4	WEBS	8	2				
8S01r	4	WEBS	8	2				
8S01s	4	WEBS	8	2				
8S01t	5	WEBS	8	2				
8S01u	5	WEBS	8	2				
8S01v	5	WEBS	8	2				
8S01w	5	WEBS	8	2				



MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'	
8S02a	1	WEBS	8	2					- 1'-4" \ω
8S02b	1	WEBS	8	2] ``` \≈ॄ
8S02c	1	WEBS	8	2					
8S02d	1	WEBS	8	2					
8S02e	2	WEBS	8	2] \ \
8S02f	2	WEBS	8	2] \ \
8S02g	2	WEBS	8	2] \ \
8S02h	2	WEBS	8	2					
8S02j	3	WEBS	8	2					.g. / TOL.)
8S02k	3	WEBS	8	2] []
8S02m	3	WEBS	8	2					¥ %
8S02n	3	WEBS	8	2] 6
8S02p	4	WEBS	8	2] ± \ \ \
8S02q	4	WEBS	8	2] \ \
8S02r	4	WEBS	8	2					
8S02s	4	WEBS	8	2] / /
8S02t	5	WEBS	8	2					J <u> </u>
8S02u	5	WEBS	8	2					\[\sqrt{\infty}
8S02v	5	WEBS	8	2					1'-4"
8S02w	5	WEBS	8	2					



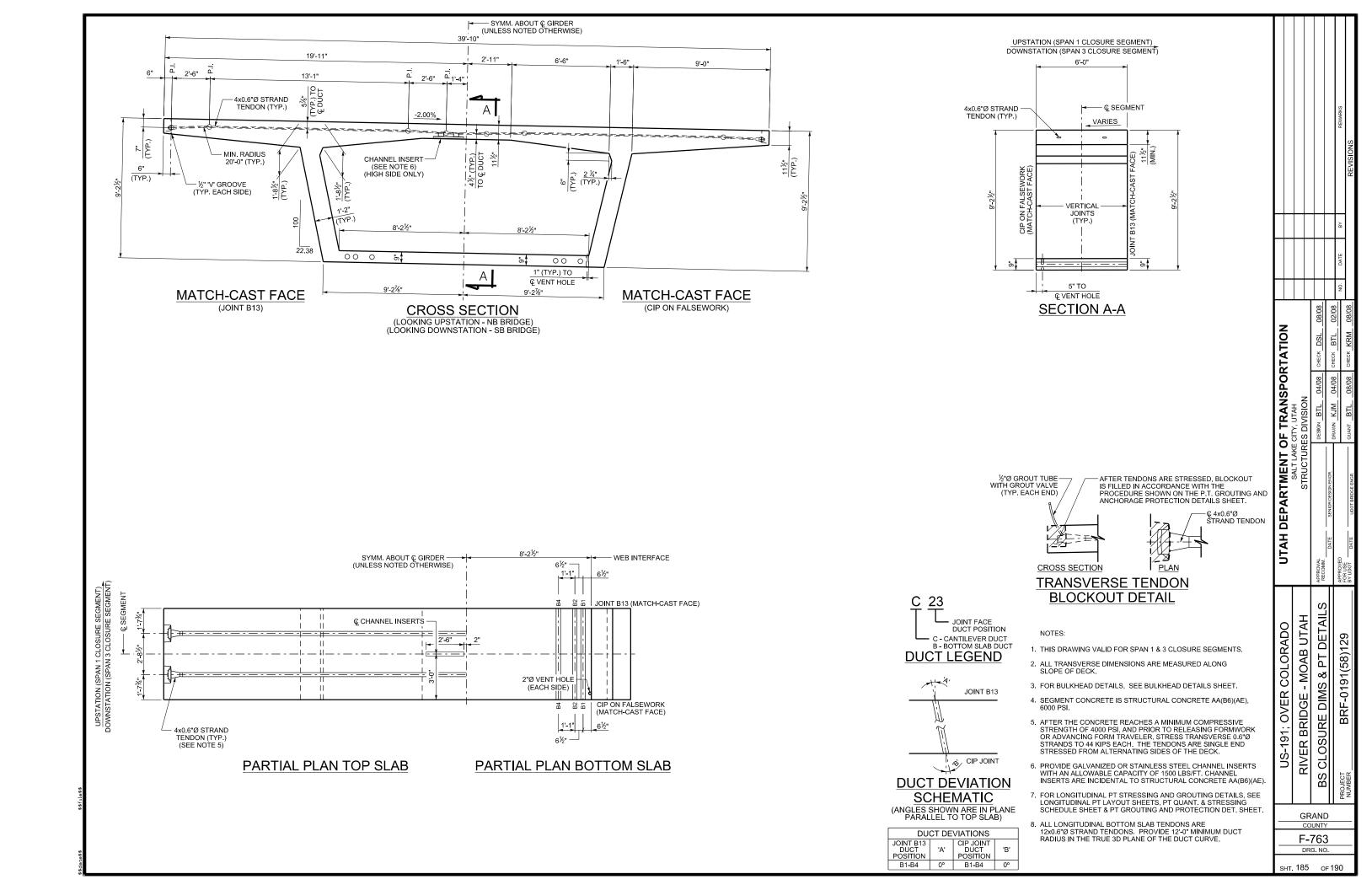


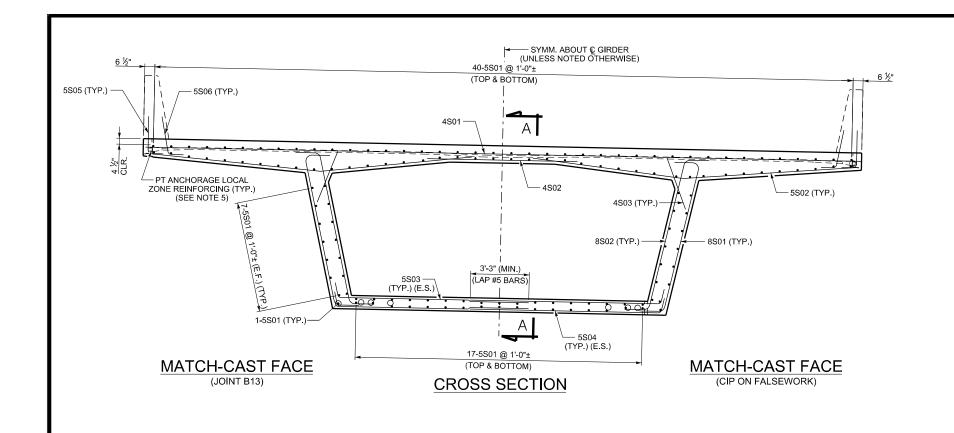
ESTIMATED QUANTITIES - ONE SEGMENT TYPE	2M	
ITEM DESCRIPTION:	UNIT	QUANTITY
REINFORCING STEEL - COATED (PLAN QUANTITY)	LB	8,241
STRUCTURAL CONCRETE AA(B6)(AE) (FOR INFORMATION ONLY)	CY	50.4
POST-TENSIONING STEEL STRAND (TRANSVERSE) (PLAN QUANTITY)	LB	575

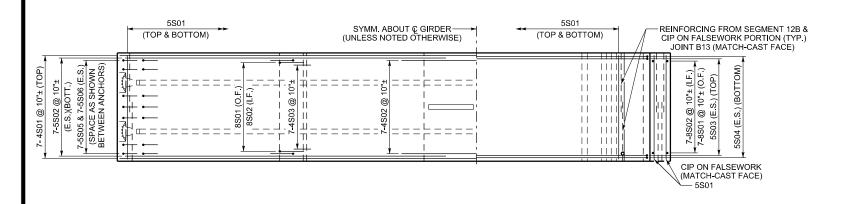
NOTES:

- 1. THIS DRAWING VALID FOR SEGMENTS N2-12M, S2-12M, N3-12M AND S3-12M.
- 2. ALL REINFORCING STEEL IS EPOXY COATED.
- 3. PROVIDE BAR BENDS IN ACCORDANCE WITH CRSI, PROVIDE BEND TOLERANCES AS REQUIRED FOR CONSTRUCTION OR AS SHOWN ABOVE FOR BARS 8501& 8502.
- FOR PT ANCHORAGE SPIRAL AND TRANSVERSE LOCAL ZONE REINFORCING, SEE PT QUANT. & STRESSING SCHEDULE SHEET.
- STRUCTURAL CONCRETE VOLUME IS GIVEN AS INFORMATION ONLY, STRUCTURAL CONCRETE IS PAID LUMP SUM.

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Companies Comp								L	_		
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US-191; OVER COLORADO US-191; OVER COLORADO UTAH DEPARTIMENT CAKE SALT LAKE SALT LAK	⊥ NOIE				< DSL 08/08		RTI 02/08	Ļ	J	KRM 08/08	
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BEGMENT 12M REINFORCING II PROJECT RIVER BRIDGE - MOAB UTAH RECOMO SECURITY 12M REINFORCING III 12M RECOMO SECURITY 12M REINFORCING III 12M RECOMO SECURITY 12M REC	PF T	CECITY, U	אוט פשא		DESIGN	L	DRAWN			- QUANT	
BEGMENT 12M REINFORCING II PROJECT RIVER BRIDGE - MOAB UTAH RECOMO SECURITY 12M REINFORCING III 12M RECOMO SECURITY 12M REINFORCING III 12M RECOMO SECURITY 12M REC	DEPARTMENT	SALT LAK	SIRUCIU				SENIOR DESIGN ENGR.			GOND BOOLD	ODO! BRIDGE ENGN.
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GRAND COUNTY F-763 DRG. NO.	3-191; OVER COLORADO	CD BDIDGE MOVELITAL	EN BNIDGE - MOAB OTALL		MENT 12M REINEORGING II						
F-763 DRG. NO.	sn	1/10			ACH C.	:)]			PROJECT	NUMBER	
DRG. NO.			co	ι	JNT'	Υ					
	SHT		OR		. NO	Э.	1:	90			







PARTIAL PLAN TOP SLAB

PARTIAL PLAN BOTTOM SLAB

CIP ON FALSEWORK (MATCH-CAST FACE)	4801 (TOP) 4802, 4803 (E.S.) & 5802 (E.S.) (BOTTOM) 8801 (O.F.) (EACH WEB) 8802 (I.F.) (EACH WEB) 5801	JOINT B13 (MATCH-CAST FACE)	- REINFORCING FROM SEGMENT 12B & CIP ON FALSEWORK DODUCING TOD
		_	
	2x7-5S04 @ 10"±		
	SECTION A-A		

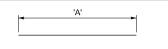
NOTE

- 1. THIS DRAWING VALID FOR SPAN 1 & 3 CLOSURE SEGMENTS.
- 2. SPACE ALL REINFORCING BARS TO CLEAR POST-TENSIONING DUCTS.
- 3. CONCRETE COVER:
 - 4 ½" TOP OF DECK
 1 ½" ALL OTHER SURFACES
- 4. ALL REINFORCING STEEL IS EPOXY COATED.
- 5. FOR TRANSVERSE LOCAL ZONE REINFORCING, SEE PT QUANT. & STRESSING SCHEDULE SHEET.
- 6. THE SYMBOL \pm DENOTES BARS THAT CAN BE SHIFTED \pm 2" TO AVOID OTHER REINFORCING OR POST-TENSIONING HARDWARE, OR TO ACHEIVE EQUAL SPACING FROM FIRST TO LAST BAR.

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OF TRANSPORTATION —	ES DIVISION		DESIGN BTL 04/08 CHECK DSL 08/08		DRAWN K IM DA/DR CHECK RTI D2/DR			QUANT. BTL 08/08 CHECK KRM 08/08		
UTAH DEPARTMENT C	UTAH DEPARTMENT OF TRANSPORTATION SALT LAKE CITY, UTAH CTENICAL INFO STANSON			APPROVAL RECOMM	DATE CONTROL OF THE C	l	APPROVED	FORUSE	BY UDOT DATE UDOT BRIDGE ENGR.	
US-191; OVER COLORADO	BIVER BRINGE - MOABIITAH	י וואוט טאטואו – ואוט אואו	BS CLOSURE REINFORCING I					ECI RRE-0101/58/100		
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SPAN 1 & 3 CLOSURE SEGMENT BAR BENDING SCHEDULE

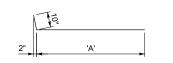
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'
4S01	TOP SLAB	4	7	39'-7"	277'-1"	39'-7"
4S02	TOP SLAB	4	7	8'-8"	60'-8"	8'-8"
4S03	TOP SLAB	4	7	2'-9"	19'-3"	2'-9"
5S01	SEGMENT	5	144	5'-8"	816'-0"	5'-9"



5000
5S02 TOP SLAB 5 14 18'-5" 257'-10"

	9'-9"	
8'-8"		1-11

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'
5S03	BOTTOM SLAB	5	14	11'-8 1/2"	163'-11"	10'-10 1/2"
5S04	BOTTOM SLAB	5	14	11'-7 1/8"	162'-3 3/4"	10'-9 1/8"
5S06	TOP SLAB	5	14	3'-7"	50'-2"	2'-9"

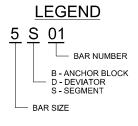


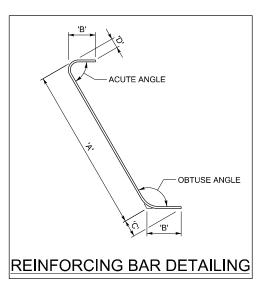
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL
5S05	TOP SLAB	5	14	3'-7"	50'-2"



MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'	
8S01	1	WEBS	8	14	11'-5 1/2"	160'-5"	8'-7 7/8"	8'-9 1/2"	1'-4" \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
									'A' (+ 0", -½" TOL.)

MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'	
8S02	1	WEBS	8	14	11'-6 1/4"	161'-3 1/2"	8'-7 7/8"	8'-10 1/4"	1'-4"
									A. (+0"."2", TOL.) B. B



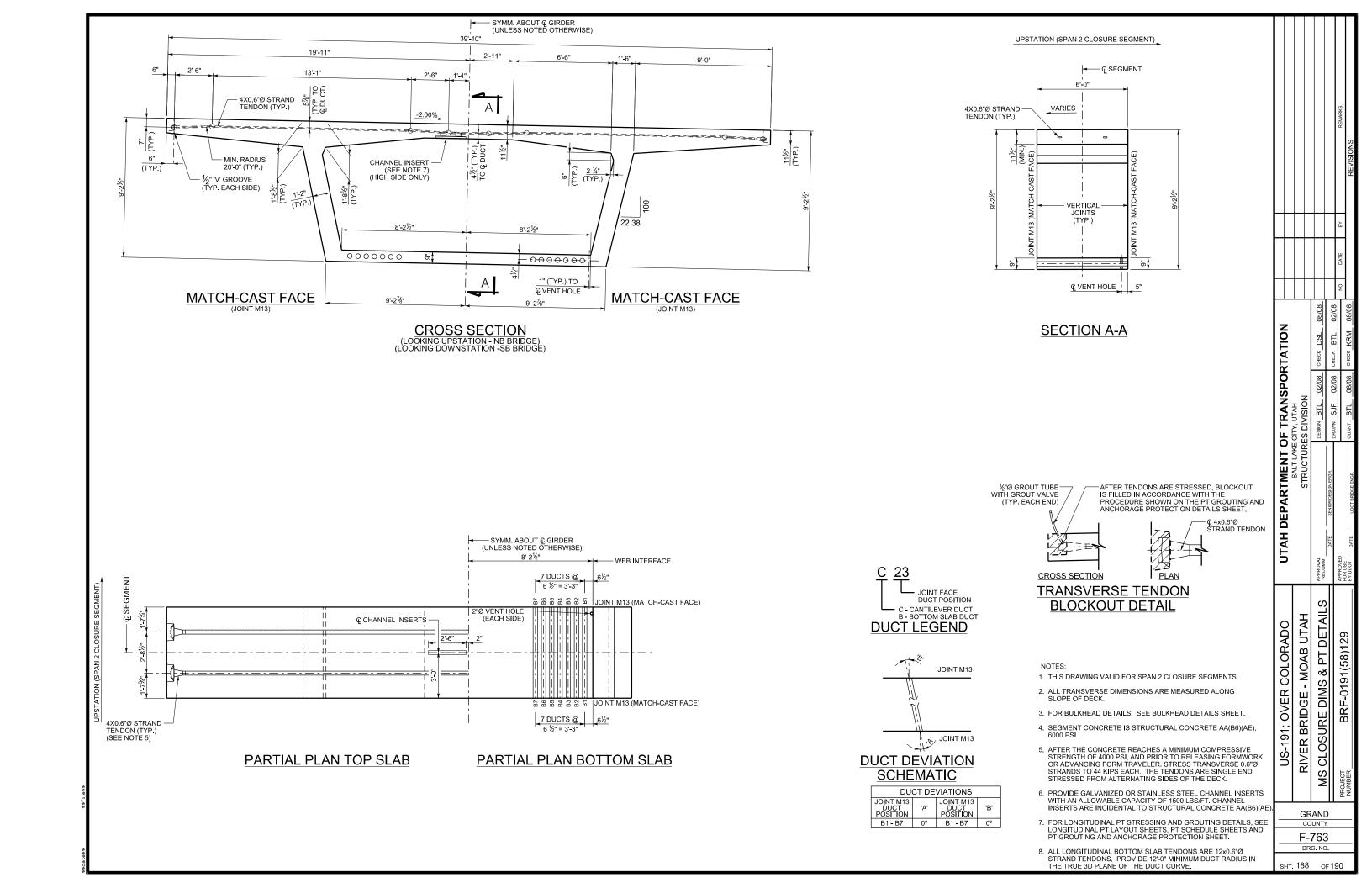


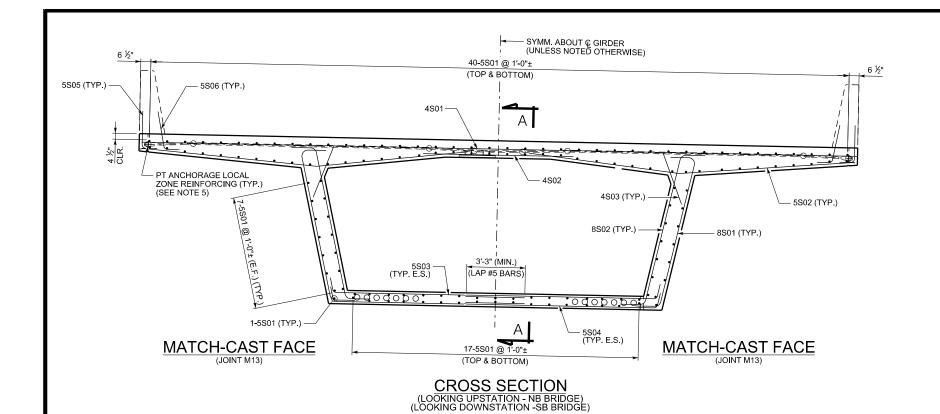
ESTIMATED QUANTITIES - ONE BACKSPAN CLOSURE S	EGM	ENT
ITEM DESCRIPTION:	UNIT	QUANTITY
REINFORCING STEEL - COATED (PLAN QUANTITY)	LB	2,662
STRUCTURAL CONCRETE AA(B6)(AE) (FOR INFORMATION ONLY)	CY	18.3
POST-TENSIONING STEEL STRAND (TRANSVERSE) (PLAN QUANTITY)	LB	230

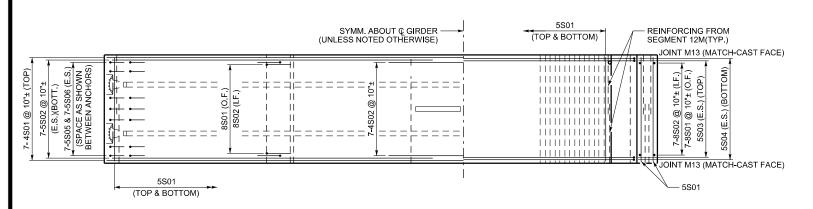
NO.

- 1. THIS DRAWING VALID FOR SPAN 1 & 3 CLOSURE SEGMENTS.
- 2. ALL REINFORCING STEEL IS EPOXY COATED.
- 3. PROVIDE BAR BENDS IN ACCORDANCE WITH CRSI, PROVIDE BEND TOLERANCES AS REQUIRED FOR CONSTRUCTION OR AS SHOWN ABOVE FOR BARS 8501& 8502.
- 4. FOR TRANSVERSE LOCAL ZONE REINFORCING, SEE PT QUANT. & STRESSING SCHEDULE SHEET.
- STRUCTURAL CONCRETE VOLUME IS GIVEN AS INFORMATION ONLY. STRUCTURAL CONCRETE IS PAID LUMP SUM.

								SИФФИН	CVANAN	SEVISIONS	
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								NO DATE	1		
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ORTATION					снеск DSL 08/08		CHECK RTI 02/08	25,22		снеск КRM 08/08	
JTAH DEPARTMENT OF TRANSPORTATION SALTLAKE CITY, UTAH STRUCTURES DIVISION					DESIGN BTL 04/08 CHECK DSL 08/08		DRAWN K.IM 04/08 CHECK RTI 02/08			QUANT BTL 08/08 CHECK KRM 08/08	
						SENIOD DESIGN ENGD	SCHOOL DESIGNATIVEN.			SON SOLD TOOL	ODO! BRIDGE ENGIN.
	: :				APPROVAL RECOMM	ET VC	2100	APPROVED	100	BY UDOT DATE	1
IS-191: OVER COLORADO	101, 04 [1, 00 [0] 0 [0]	DIVED REIDGE MOAR LITAH	וואוט מאטואום אום אום אום אום		BS CLOSLIRE REINFORCING II				BBE-0101/58/120	621(00)1610-1110	
		2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		S. S.	S			PROJECT	NUMBER	
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SH	IT.	18	7		С	F	1	90)		

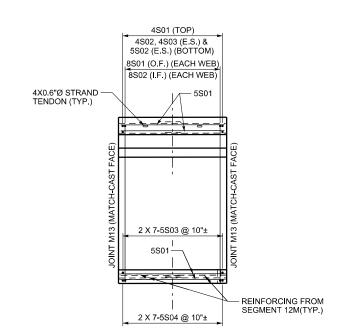






PARTIAL PLAN TOP SLAB

PARTIAL PLAN BOTTOM SLAB



SECTION A-A

- 1. THIS DRAWING VALID FOR SPAN 2 CLOSURE SEGMENTS.
- 2. SPACE ALL REINFORCING BARS TO CLEAR POST-TENSIONING DUCTS.
- 3. CONCRETE COVER:
- 4½" TOP OF DECK 1½" ALL OTHER SURFACES
- 4. ALL REINFORCING STEEL IS EPOXY COATED.
- 5. FOR TRANSVERSE LOCAL ZONE REINFORCING, SEE PT QUANT. & STRESSING SCHEDULE SHEET.
- 6. THE SYMBOL \pm DENOTES BARS THAT CAN BE SHIFTED \pm 2" TO AVOID OTHER REINFORCING OR POST-TENSIONING HARDWARE, OR TO ACHIEVE EQUAL SPACING FROM FIRST TO LAST BAR.

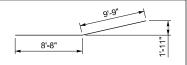
								SAGWEG	CHARACTE	BEVISIONS	0.00
								^0	5		
								DATE	1		
								ON.	2		
TATION					снеск DSL 08/08					снеск KRM 08/08	
TE TEANSPOR	IF TRANSPOR				DESIGN BTL 02/08 CHECK DSL 08/08	i i	DRAWN STIT COVOX CHECK BY COVOX			QUANT BTL 08/08 CHECK KRM 08/08	
C TNEMENT OF PARTMENT OF	UTAH DEPARTMENT OF TRANSPORTATION SALTLAKE GITY, UTAH STRUCTURES DIVISION				APPROVAL RECOMM	DATE SENIOR DESIGN ENGR.		APPROVED	10 I I I	BY UDOT DATE LIBOT BRIDGE ENCE	
00100 00100 011	US-191, OVER COLORADO	DIVED BOINCE MOVE LITAL	NIVEN DNIDGE - MOAD UTALL		MS CLOSLIBE REINFORCING L				PROJECT BBE-0101(58)120	NUMBER DIN -0131(30)123	
		C	SR CC	L	ANI JNT	Д <u>D</u>			_	_	
		F			'6:	3					
S	HT.	18	9		C)F 1	1:	9()		

MAINSPAN CLOSURE SEGMENT BAR BENDING SCHEDULE

MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'
4S01	TOP SLAB	4	7	39'-7"		39'-7"
4S02	TOP SLAB	4	7	8'-8"		8'-8"
4S03	TOP SLAB	4	7	2'-9"		2'-9"
5S01	SEGMENT	5	144	5'-8"		5'-9"



MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL
5S02	TOP SLAB	5	14	18'-5"	257'-10"
		•		•	•



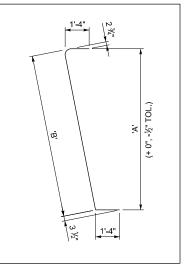
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'
5S03	BOTTOM SLAB	5	14			
5S04	BOTTOM SLAB	5	14			
5S06	TOP SLAB	5	14			



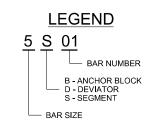
MARK	LOCATION	SIZE	NUM	LENGTH	TOTAL
5805	TOP SLAB	5	14	3'-7"	50'-2"

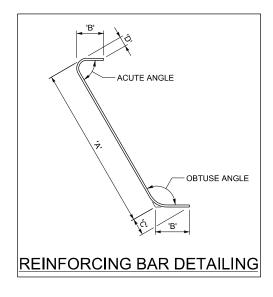


MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'
8501	1	WEBS	8	14			Ì	



MARK	GROUP	LOCATION	SIZE	NUM	LENGTH	TOTAL	'A'	'B'	
8S02	1	WEBS	8	14] 1'-4"
									, N. (+ 0", -½" TOL.) 1.44 1.47 8.





ESTIMATED QUANTITIES - ONE MAINSAPN CLOSURE S	EGM	ENT
ITEM DESCRIPTION:	UNIT	QUANTITY
REINFORCING STEEL - COATED (PLAN QUANTITY)	LB	2,662
STRUCTURAL CONCRETE AA(B6)(AE) (FOR INFORMATION ONLY)	CY	18.3
POST-TENSIONING STEEL STRAND (TRANSVERSE) (PLAN QUANTITY)	LB	230

NOT

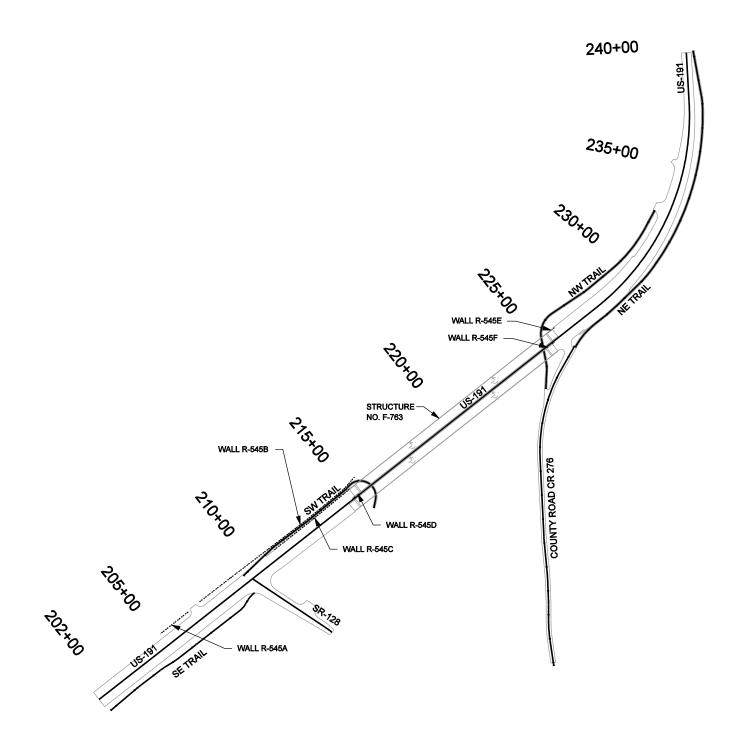
- THIS DRAWING VALID FOR MAINSPAN CLOSURE SEGMENTS.
- 2. ALL REINFORCING STEEL IS EPOXY COATED.
- 3. PROVIDE BAR BENDS IN ACCORDANCE WITH CRSI. PROVIDE BEND TOLERANCES AS REQUIRED FOR CONSTRUCTION OR AS SHOWN ABOVE FOR BARS 8S01& 8S02.
- FOR PT ANCHORAGE SPIRAL AND TRANSVERSE LOCAL ZONE REINFORCING, SEE PT QUANT. & STRESSING SCHEDULE SHEET.
- STRUCTURAL CONCRETE VOLUME IS GIVEN AS INFORMATION ONLY, STRUCTURAL CONCRETE IS PAID LUMP SUM.

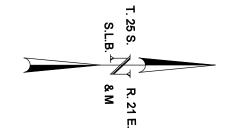
		-SN	US-191; OVER COLORADO	ПТАН	UTAH DEPARTMENT OF TRANSPORTATION	JE TRAN	SPOF	RTATIC
CC	GR	RIVE	RIVER BRIDGE - MOAB UTAH		SALI LAKE CITY, UTAH STRUCTURES DIVISION	SALI LAKE CILY, ULAH RUCTURES DIVISION	7	
TNU	ANI	MS CI	MS CLOSURE REINFORCING II	APPROVAL RECOMM:		DESIGN BTL 02/08 CHECK DSL	02/08	CHECK DS
Y)			DATE	SENIOR DESIGN ENGR.	O moreon	00/00	TO VOSID
				APPROVEN		DRAWN 33F 02/00	02/00	OIECK D
		PROJECT NUMBER	BRF-0191(58)129	FOR USE BY UDOT DATE	down applied Todio	QUANT. BTL 08/08 CHECK KRM	80/80	снеск КВ
				1	ODO! BRIDGE ENGR.			

F-763 DRG. NO.

SHT. 190 OF 190

MSE WALL R-545 SITUATION AND LAYOUT SHEET





GENERAL NOTES

 USE COATED DEFORMED CARBON REINFORCING BARS CONFORMING TO AASHTO M284 OR M111 AND M31 GRADE 60 FOR ALL REINFORCING STEEL. UTAH DEPARTMENT OF TRANSPORTATION

RIVER BRIDGE - MOAB UTAH MSE WALL R-545 LOCATION PLAN

GRAND

COUNTY

DRG. NO.

R-545

US-191; OVER COLORADO

- 2. CHAMFER ALL EXPOSED CONCRETE CORNERS 3/4" EXCEPT WHERE NOTED OTHERWISE.
- 3. PROVIDE 2" OF CONCRETE COVER TO REINFORCING STEEL EXCEPT WHERE NOTED OTHERWISE.
- 4. USE CLASS AA(AE) CAST-IN-PLACE CONCRETE EXCEPT WHERE NOTED OTHERWISE.
- 5. USE CLASS 3A (AE) CONCRETE FOR WALL FACING PANELS.
- 6. USE CLASS B CONCRETE FOR LEVELING PAD UNLESS OTHERWISE NOTED.
- USE MSE SELECT BACKFILL IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 02832S.
- 8. SUBMIT WALL FABRICATION PLANS PER SECTION 02831S. SEE WALL FABRICATION PLANS FOR ADDITIONAL WALL DETAILS.
- 9. SEE GEOTECHNICAL PLANS FOR SURCHARGE PRESSURES,

QUANTITIES

	 		
ITEM	ESTIMATED	UNIT	AS CONST.
MSE WALL (R-545A) (EST. QTY. 581 SQ. FT.)	1	LUMP	
MSE WALL (R-545B) (EST. QTY. 6131 SQ. FT.)	1	LUMP	
MSE WALL (R-545C) (EST. QTY. 3541 SQ. FT.)	1	LUMP	
MSE WALL (R-545D) (EST. QTY. 515 SQ. FT.)	1	LUMP	
MSE WALL (R-545E) (EST. QTY. 165 SQ. FT.)	1	LUMP	
MSE WALL (R-545F) (EST. QTY. 364 SQ. FT.)	1	LUMP	

DESIGN DATA

DESIGN IN ACCORDANCE WITH CURRENT AASHTO LRFD AND INTERIM SPECIFICATIONS.

CAST-IN-PLACE CONCRETE:

f'c = 4000 psi; fy (REINF.) = 60,000 psi; n = 8

WALL PANEL CONCRETE:

f'c = 5000 psi; fy (REINF.) = 60,000 psi; n = 8

SEISMIC:

AASHTO LRFD SEISMIC ZONE? A50 = 0.xx g (10% PE IN 50 YRS.) <--? A250 = 0.xx g (10% PE IN 250 YRS.) <--? SOIL PROFILE TYPE IV FOR WALLS LOCATED ... SOIL PROFILE TYPE III FOR WALLS LOCATED ...

INDEX OF SHEETS

1 GENERAL NOTES/LOCATION PLAN

2-3 SOIL DATA

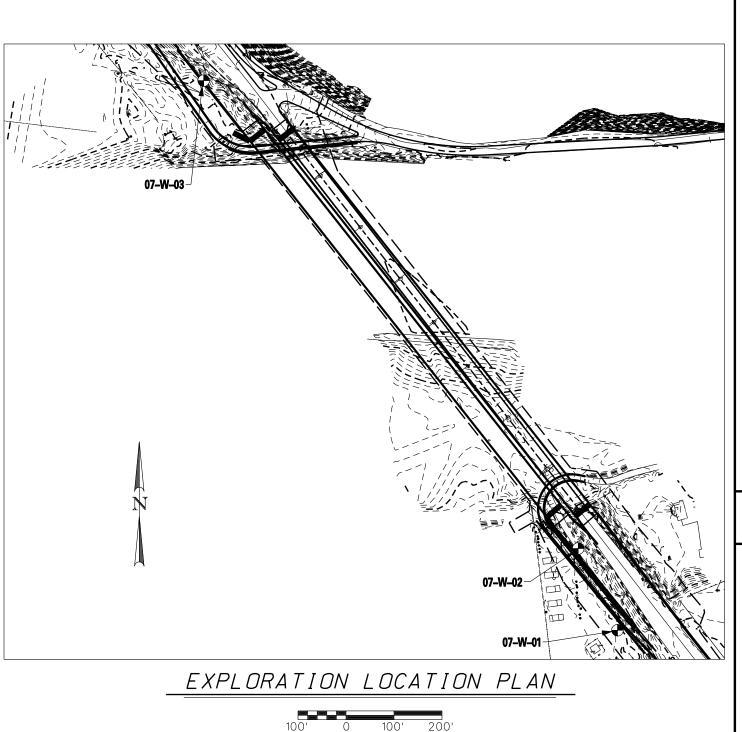
4,5,6,7 MSE WALL R-545 TYPICAL SECTION SHEETS & DETAIL SHEETS

| R-545A | SITUATION & LAYOUT | R-545B | SITUATION & LAYOUT | R-545C | SITUATION & LAYOUT | R-545C | SITUATION & LAYOUT | R-545D | SITUATION & LAYOUT |

13 R-545E SITUATION & LAYOUT
 14 R-545F SITUATION & LAYOUT

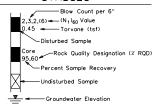
PRELIMINARY NOT FOR CONSTRUCTION

	L HOLE :ct: <u>us-19</u>			ADO RIVE	R BRIDGE			ВС	ORIN			SHE	EΤ		
CLIEN'	T: <u>UTAH DE</u> FION: SEE					E:99,534	PROJECT DATE ST			_		01.2 0/07			_]
	NG METHOD:				CASING & N.Q. CORE	E-99,554	DATE CO					/07			
	R: <u>D. SAM</u>						GROUND					72.0			_
DEPTH	TO WATER	: - IN	IIIIAL: ¥_ Sample		AFTER 24 HOUF	tS: ▼ <u>N.M.</u>	LOGGED		Π		EN, er.	1	<u>OONE</u> adati		-
Elev. (ft)	Depth (ft) Depth	Rec. (in)	See Legend	USCS (AASHTO)	Mate	rial Description		Dry Density (pcf)	Moisture Content (%)	Liquid Limit	Plast. Index	Gravel (%)	_	Silt/Clay (Z)	Unconfined Strength (psi)
-		14	13,19,18,(79)	SM	brown, slightly moist, dense	SILTY SAND W/GRAVEL									
3970 -		13	4,4,3,(15)	SM (A-2-4(0))	red-brown, slightly moist, loose				6.3		NP	5	67	28	
-	5-	14	4,4,5,(19)	SM		SILTY SAND few random clay lenses									
3965 -				SM	red-brown, moist										
-	1000	6	4,2,2,(7)	CL	green-gray, moist			1							
- - -	10-	16	Pushed 0.14	CL (A-6(10))	brown, very moist, soft	EAN CLAY		102	23	27	13	0	9	91	7
3960 -		X 16	Pushed 0.09	CL (A-4(6))	gray-brown, very moist, y	LEAN CLAY W/SAND			27	30	9	0	23	77	
-	15-15-														
3955 —		14	0/18",(0) 0.04	CL-ML	gray-brown, wet, very soft	SANDY SILTY CLAY									
- - -	20-20-20-20-20-20-20-20-20-20-20-20-20-2	7	8,12,22,(47)	GP-GM	brown, wet, med. dense	GRAVEL W/SILT & SAND									
3950 — - -	25-25-	11	21,19,23	CL (A-4(2))	red to purple-brown, hard	CLAYSTONE (LEAN CLAY W/GRAVEL) very highly weathered			11.8	24	8	18	23	59	
3945 —		25	Core 70,30		red-brown, ext. soft rock to soft rock			132.8	9.6						150
- - 3940 —	30-27	10	Core 16,0	-	red-brown, ext. soft rock	CLAYSTONE (LEAN CLAY W/GRAVEL) inghly weathered, most of washing away, occasional th siltstone layers	sample nin								
-		13	4,8,9 0.55	CL (A-4(3))	red-brown, ext. soft rock/stiff soil				14.6	24	10	20	21	59	
-	35-25	6	Core 17,0	-	red-brown, ext. soft rock/stiff soil										
3935 — -		8	4,4,7	GC (A-2-4(0))	brown-purple, ext. soft rock/very loose soil				10.5	23	9	46	22	32	
- 3930 -	40-	10	Core 20,0	-	red-brown, ext. soft rock	CLAYSTONE (CLAYEY GRA	.VEL)								
-		7	7,4,5 0.65	-	brown-purple, ext. soft rock/very loose soil										
-	45-	0	Core 0,0	-	no recovery										
3925 — -	1 1 2	6	56/6" 0.70	-	dk. gray	SHALEY MUDSTONE									



KEY TO BORING LOG

SYMBOLS



RELATIVE DENSITY (NON-PLASTIC - SAND & SILT)

VERY LOOSE N<4 LOOSE N 4-10 MED DENSE N 10-30 DENSE N 30-50 VERY DENSE N>50

CONSISTENCY (PLASTIC - SILT & CLAY)

VERY SOFT N<2 SOFT N 2-4 MEDIUM STIFF N 4-8 STIFF N 8-15 VERY STIFF N 15-30 HARD N>30

GENERAL NOTES

- 1. THE SUBSURFACE EXPLORATION SHOWN WAS CONDUCTED BETWEEN 11-30-07 AND 12-03-07 BY RB&G ENGINEERING, INC..
- 2. THESE BORING LOGS REPRESENT A
 SYNOPSIS OF THE SOIL DEPOSITS
 ENCOUNTERED WITHIN EACH BORING AND
 ARE BASED ON SOUND GEOLOGICAL AND
 ENGINEERING JUDGMENT. BECAUSE
 SOIL IS A COMPLEX MEDIUM, THESE
 BORING LOGS MAY MEDIUM, THESE
 BORING LOGS MAY OR MAY NOT
 REPRESENT THE SOIL CONDITIONS AT
 THIS SITE, THIS SUBSURFACE
 INTERPRETATION IS PRESENTED IN
 GOOD FAITH AND IS NOT INTENDED AS
 A SUBSTITUTE FOR PERSONAL
 INVESTIGATION AND JUDGEMENT OF
 THE CONTRACTOR.
- 3. THE WATER LEVELS AND CONDITIONS INDICATED ON THE BORING LOGS REPRESENT HOLE CONDITIONS ON THE DATE SHOWN, HOWEVER, IT SHOULD BE NOTED, THAT AT LOCATIONS AWAY FROM THE BORINGS OR AT ANOTHER TIME THE WATER LEVELS AND CONDITIONS MAY VARY SIGNIFICANTLY.
- 4. THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.
- 5. COBBLE A ROCK WITH AN AVERAGE DIMENSION BETWEEN 3 INCHES AND 12 INCHES
- 6. BOULDER A ROCK WITH AN AVERAGE DIMENSION OF 12 INCHES OR GREATER

NOTE: DRILL RIG USED - CME-55 NO.1 HAMMER E=0.75

UTAH DEPARTMENT	SALT LAK STRUCTUF		SENIOR DESIGN ENGR.		UDOT BRIDGE ENGR.
UTAH		APPROVAL RECOMM.	T DATE	APPROVED FOR USE	BY UDOT DATE
US-191;	OVER COLORADO RIVER BRIDGE	SOIL DATA SHEET		PROJECT BRF-0191(58)129	
	GR	AND			-
_	R.	- 54 3 G. NO.	5		-

SHT. 2 OF 14

: TRANSPORTATION
ITY, UTAH
S DIVISION

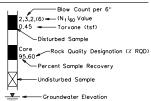
GEOTECHNICAL ENGINEER

LOCAT DRILLIN DRILLE	T: <u>UT</u> TION: NG ME	SEE THOD: D. SAM	PAR SITE	CME-55 NO N	TRANSPO TA. 214+4 .1/ N.W.	RTATION 6, 33'LT. / N:200,5 CASING & N.Q. COR	01 E:99,453 EE		TARTE OMPLE	D: TED:	1	1/29 1/30	701.2 9/07 0/07	00	10	F
DEPTH	I TO	WATER	- 11	NITIAL: ♀ <u>;</u> Sample	20.2'	AFTER 24 HO	URS: ▼ <u>N.M.</u>	LOGGED		<u>M.</u> H		EN,		OON adat		_
Elev. (ft)	Depth (ft)	Lithology	Rec. (in)	See Legend	USCS (AASHTO)	Mc	terial Description		Dry Density (pcf)	Moisture Content (%)	Liquid Limit	Plast, Index	_	Sand (%)	G	Unconfined
3975 —	-		6	7,10,11,(45) Grab	GM SM	brown, slightly moist brown to red-brown, sl. moist, med. dense	2" ASPHALT 6" ROAD BASE SILTY SAND									
-	-		9	9,7,6,(28)	GM (A-1-b(0))	orange-brown, slightly moist, med. dense	SILTY GRAVEL W/SAND			7.6		ΝP	44	43	13	
3970 — -	5-		5	19,12,6,(38)	GP-GM (A-1-a(0))	orange-brown, slightly moist, loose	GRAVEL W/SILT & SAND possible cobbles & boulders			10.5		ΝP	64	26	10	
-	-		9	6,7,10,(32)	GC (A-2-4(0))	red-brown, slightly moist, loose	CLAYEY GRAVEL W/SAND possible cobbles & boulders			8.5	22	7	64	20	16	
- 3965 - -	10		9	32,23,8,(50)	GP-GM	red-brown, moist, med. dense	GRAVEL W/SILT & SAND possible cobbles & boulders (fill?)									
-	-		13	Pushed 0.46	SM (A-2-4(0))	brown, moist			98	11		ΝP	0	65	35	
- 3960 —	15—		14	4,5,5,(14) 3,3,3,(8)	SM SM	gray-brown, moist, loose brown, very moist, loose	SILTY SAND few silt layers to 3" thick									
-	-		17	2,2,5,(9)	ML	brown, wet, loose	SANDY SILT			21.4		ΝP	7	40	5.7	
∑ 3955 –	20-			27,42,40,(97)	(A-4(0)) GP-GM	brown, wet, dense				21.7			,	70	33	
- - 3950 — - -	- 25— -		11	14,20,16,(40)	GP-GM (A-1-a(0))	brown, wet, med. dense	GRAVEL W/SILT & SAND cobbles & boulders (soft so	ndstone)		7.4		ΝP	67	23	10	
- 3945 — -	30-		12	28,22,16,(40)	GM	brown, wet, med. dense	SILTY GRAVEL W/SAND cobbles & boulders									
- - - 3940 -	35—		10	39,56/5"		red-brown, hard	MUDSTONE very highly weathered									
-	-		22	Core 86,62	GC (A-4(0))	red-brown, very soft rock to soft rock	CLAYEY MUDSTONE (CLAYE GRAVEL W/SAND) very highly weathered	Y	138.3	7.8	20	7	33	31	36	11
- - 3935 — -	40— 40—		18	Core 30,20	-	red-brown, very soft rock	MUDSTONE		137.9	7.9						4
- - - 3930 -	45-		18	Core 30,0	-	red-brown, very soft rock	Moustone highly fractured (horizontal & vertical), broken & brecciate zones, green staining on fra	d, rubble								

PROJE	CT:	<u>US-1</u>	91; (OVE	R COLOR	ADO RIVE	R BRIDGE		- L					SHE	EΤ	1 0	F 1
					MENT OF				_ PROJEC				007		00		
LOCA"							05, 42' LT. / N:201,4		_ DATE S			_	<u>2/4.</u> 2/4.				—
DRILLI DRILLE		D. SAI		_	ME-33 NU	. 1 / IN.W.	CASING & N.Q. COI	7.5	_ DATE C _ GROUND					73.5	5'		—
					ITIAL: ▽ _	17.0'	AFTER 24 HO	OURS: ¥ <u>N.M.</u>	LOGGED			HANS	_			Ε	
					Sample					Ż.		Att	er.	Gr	adat	_	٠.
Elev. (ft)	Depth (ft)	Lithology	Type	Rec. (in)	See Legend	USCS (AASHTO)	M	aterial Description		Dry Density (pcf)	Moisture Content (X)	Liquid Limit	Plast. Index	Gravel (%)	Sand (X)	Silt/Clay (7)	Unconfine Strength
-				15	5,15,18,(70)	GM	red-brown, slightly moist, med. dense										
- 1970 -				15	10,12,24,(77)	GM (A-1-b(0))	red-brown, slightly moist, med. dense	SILTY GRAVEL W/SAND (fill?)			7.1		NΡ	39	37	24	
-	5-		_	3	56/4"	GM	red-brown, slightly moist, very dense										
- 1965 –] . .			12	7,9,15,(45)	SP (A-3(0))	red-brown, moist, med. dense	SAND W/GRAVEL			16.9		NP	38	30	2	
-	10-			12	3,3,3,(10)	ML	red-brown to It. brown, w loose			-							
- 1960 -				8	3,2,2,(6)	ML (A-4(0))	brown, wet, very loose	SANDY SILT			25		ΝP	0	37	63	
-	15-		X	12	Pushed	SM (A-2-4(0))	lt. brown, wet	SILTY SAND		102.3	15.6		ΝP	2	81	17	
-				12	11,12,10,(29)	GP-GM	It. brown, wet, loose	CDAVEL WASHIT A CAND									
1955 - -	20-			12	36,12,11,(29)	GP-GM	brown, wet, loose	GRAVEL W/SILT & SAND									
-	:							MUDSTONE very highly weathered									
950 –	1	××		1	47/1"		red-brown, very soft rock			1							
-		× × × ×		56	Core 95,67	CL-ML (A-4(0))	red-brown, soft rock	SANDY SILTSTONE (SANDY CLAY)	SILTY	153.2	3.3	22	4	0	35	65	2050
-	25-	:::	۱				red-brown, soft rock	SILTY MUDSTONE		1							
_] .	1711			Coro		or own, sort rock	S.E.F. MODOTORE		1							
-	·			56	95,67		red-brown, soft rock										
.945 - - -	30-			58	Core 96,62	CL (A-6(5))	red-brown, soft rock	CLAYSTONE (SANDY LEAN silty mudstone layers, som vertical (803%4) fractures		148.7	5.4	27	11	0	30	70	450

KEY TO BORING LOG

SYMBOLS



RELATIVE DENSITY (NON-PLASTIC - SAND & SILT)

VERY LOOSE N<4 LOOSE N 4-10 MED DENSE N 10-30 DENSE N 30-50 VERY DENSE N>50

CONSISTENCY (PLASTIC - SILT & CLAY)

VERY SOFT N<2 SOFT N 2-4 MEDIUM STIFF N 4-8 STIFF N 8-15 VERY STIFF N 15-30 HARD N>30

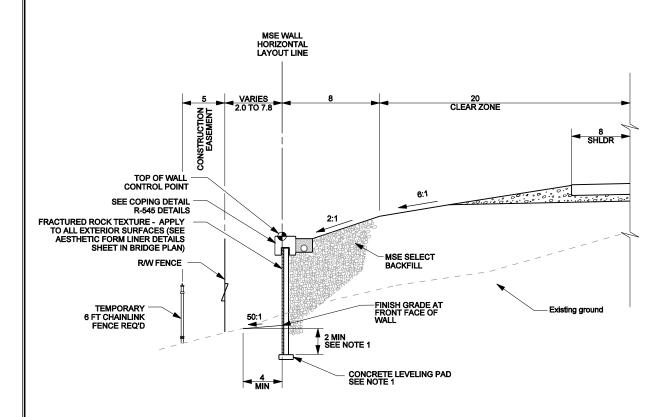
GENERAL NOTES

- 1. THE SUBSURFACE EXPLORATIONS SHOWN WERE CONDUCTED BETWEEN 11-29-07 AND 12-04-07 BY RB&G ENGINEERING, INC..
- 2. THESE BORING LOGS REPRESENT A SYNOPSIS OF THE SOIL DEPOSITS ENCOUNTERED WITHIN EACH BORING AND ARE BASED ON SOUND GEOLOGICAL AND ENGINEERING JUDGMENT. BECAUSE SOIL IS A COMPLEX MEDIUM, THESE BORING LOGS MAY OR MAY NOT REPRESENT THE SOIL CONDITIONS AT THIS SITE. THIS SUBSURFACE INTERPRETATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION AND JUDGEMENT OF THE CONTRACTOR.
- 3. THE WATER LEVELS AND CONDITIONS INDICATED ON THE BORING LOOS REPRESENT HOLE CONDITIONS ON THE DATE SHOWN, HOWEVER, IT SHOULD BE NOTED, THAT AT LOCATIONS AWAY FROM THE BORINGS OR AT ANOTHER TIME THE WATER LEVELS AND CONDITIONS MAY VARY SIGNIFICANTLY.
- 4. THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.
- 5. COBBLE A ROCK WITH AN AVERAGE DIMENSION BETWEEN 3 INCHES AND 12 INCHES
- 6. BOULDER A ROCK WITH AN AVERAGE DIMENSION OF 12 INCHES OR GREATER

NOTE: DRILL RIG USED - CME-55 NO.1 HAMMER E=0.75

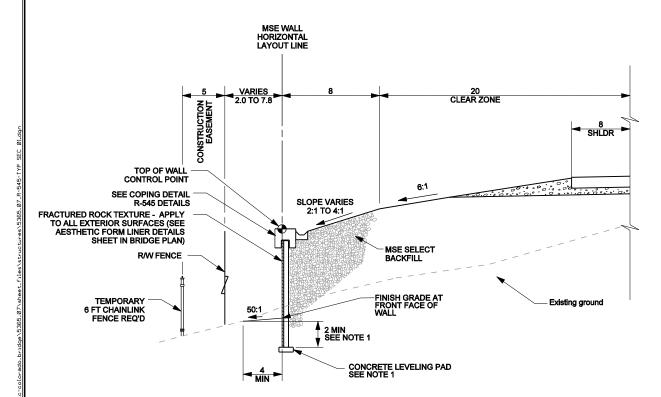
GEOTECHNICAL ENGINEER

Z		2	12	,		
ATIC		SF SF	30	5	Acano	5
RT/		DESIGN MNH 12/07 CHECK SRJ	I AS XJARJ 80/C INGI WWW	5	-	5
SPC	7	12/07	90/6	3		•
KAN	VISIOI	MNH	Q	N L		•
F	CITY, I	DESIGN	10000	DESCRIPTION		COAN .
JTAH DEPARTMENT OF TRANSPORTATION	SALT LAKE CITY, UTAH STRUCTURES DIVISION		SENIOR DESIGN ENGR.			UDOT BRIDGE ENGR.
1 HYLI		APPROVAL RECOMM.	DATE	UEMUBBON	FOR USE	BY UDOT DATE
	OVER COLORADO RIVER BRIDGE	ΤΞ)129	
US-191;	DO RIVE	SOIL DATA SHEET			BRF-0191(58)129	
SN	COLORA	SOIL DA			BR	
	OVEF				PROJECT	NOMBER
	GR	ANE) 			_
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TYPICAL SECTION R-545.1

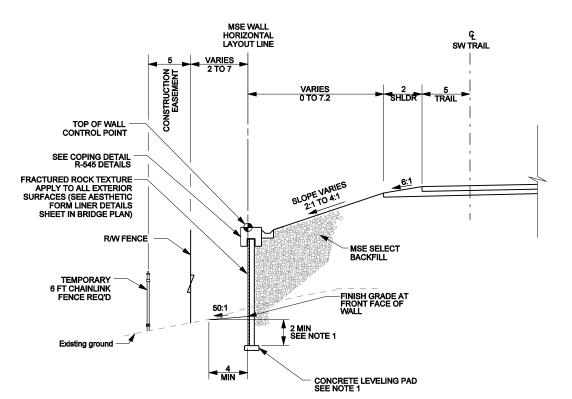
MSE WALL R-545A STA 10+98.50 TO STA 12+49.38



TYPICAL SECTION R-545.1A

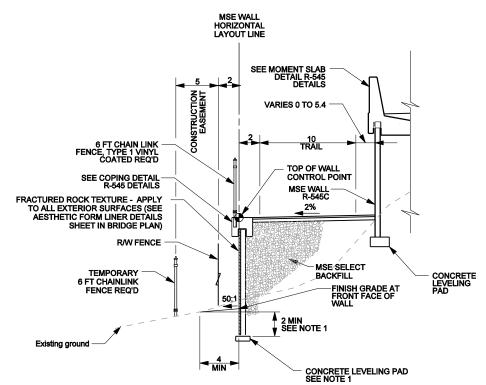
MSE WALL R-545B STA 14+99.64 TO STA 18+30.59

PRELIMINARY NOT FOR CONSTRUCTION



TYPICAL SECTION R-545.2

MSE WALL R-545B STA 18+30.95 TO STA 18+75.78 MSE WALL R-545B STA 23+08.39 TO STA 23+25.69



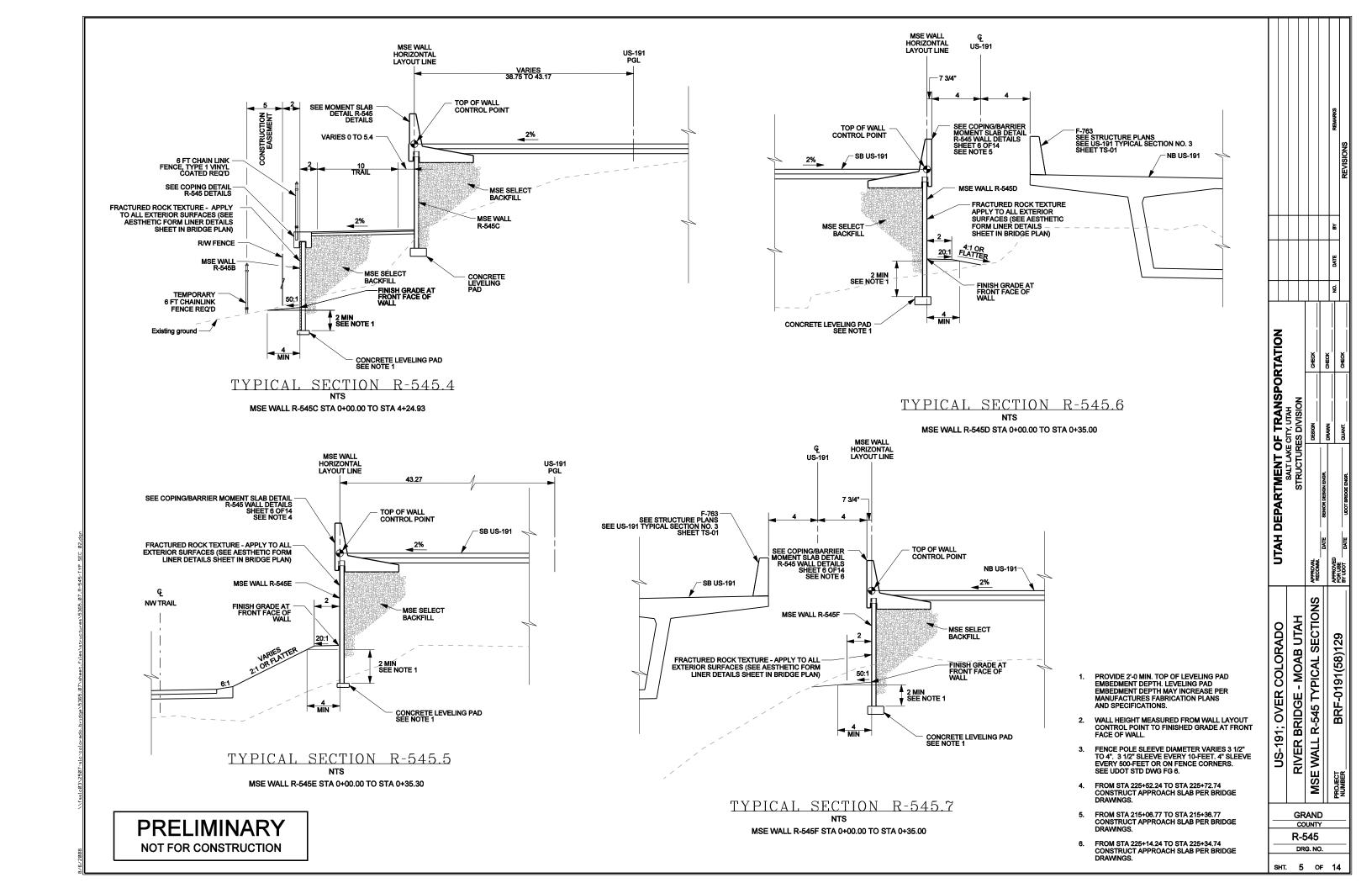
TYPICAL SECTION R-545.3

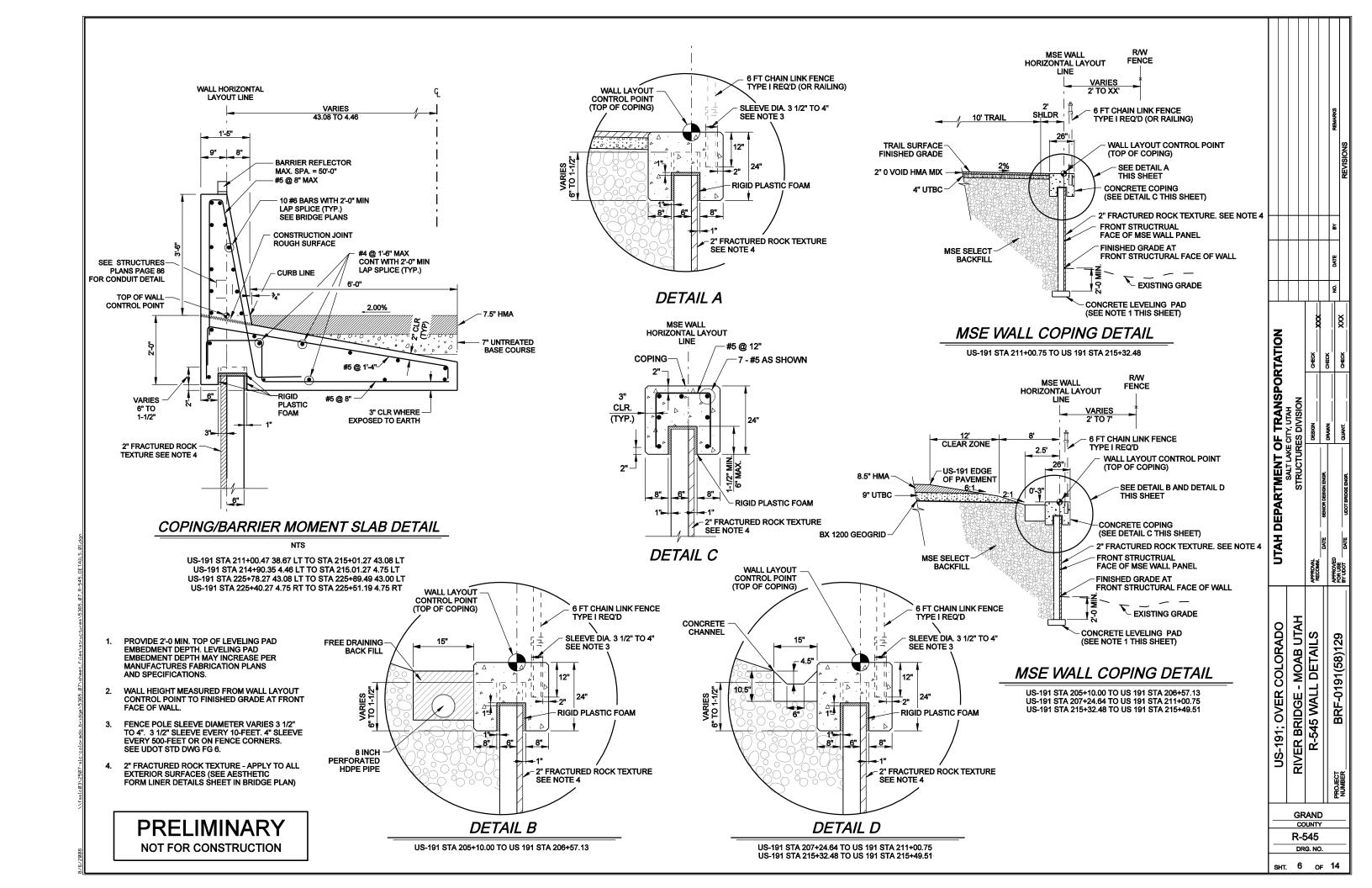
MSE WALL R-545B STA 18+75.78 TO STA 23+08.39

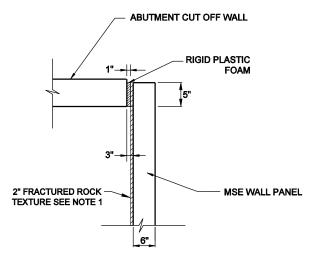
- PROVIDE 2'-0 MIN. TOP OF LEVELING PAD EMBEDMENT DEPTH. LEVELING PAD EMBEDMENT DEPTH MAY INCREASE PER MANUFACTURES FABRICATION PLANS AND SPECIFICATIONS.
- 2. WALL HEIGHT MEASURED FROM WALL LAYOUT CONTROL POINT TO FINISHED GRADE AT FRONT FACE OF WALL.
- 3. FENCE POLE SLEEVE DIAMETER VARIES 3 1/2" TO 4", 3 1/2" SLEEVE EVERY 10-FEET, 4" SLEEVE EVERY 500-FEET OR ON FENCE CORNERS. SEE UDOT STD DWG FG 6.

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C TDANSDO		ייסומאיני מר	ES DIVISION		DESIGN		DBAWN			Hair	COANI.	
CEDA DTMENT C	JTAH DEPARTMENT OF TRANSPORTATION SALTLAKE CITY, UTAH STRUCTURES DIVISION					GOVE NOISSE GOINGS	SENIOR DESIGN ENGR.				UDOT BRIDGE ENGR.	
וודאחו					APPROVAL	1	3	APPROVED	E PORTO		BY UDO! DATE	
OUAGO 102 93/0 : 101	US-191, OVER COLORADO	DIVED BOINGE MOABILIAL		MSE WALL R-545 TYPICAL SECTIONS 掘					PROJECT BBE-0101/58/120			
		G			ANI		_			_		
R-545 DRG. NO.												

SHT. 4 OF 14

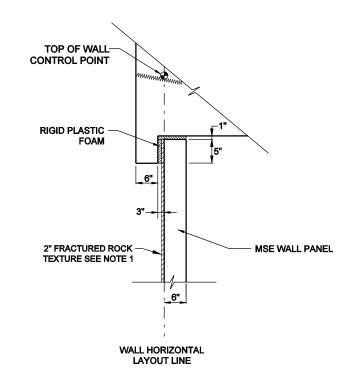






ABUTMENT CUT OFF WALL TIE-IN DETAIL

NTS



BRIDGE ABUTMENT TIE-IN DETAIL

NTS

PRELIMINARY
NOT FOR CONSTRUCTION

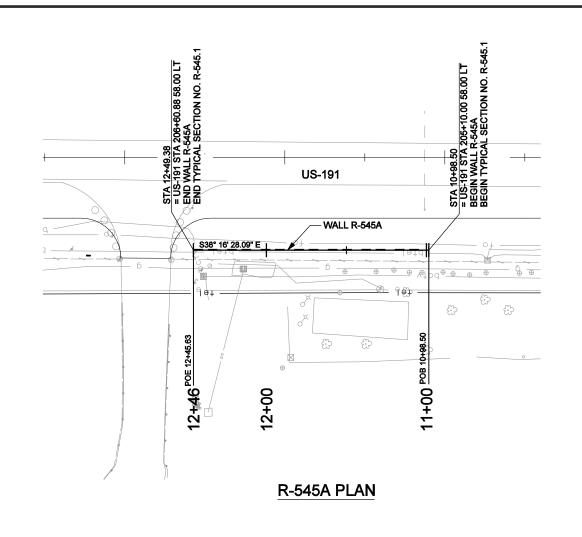
NOTE

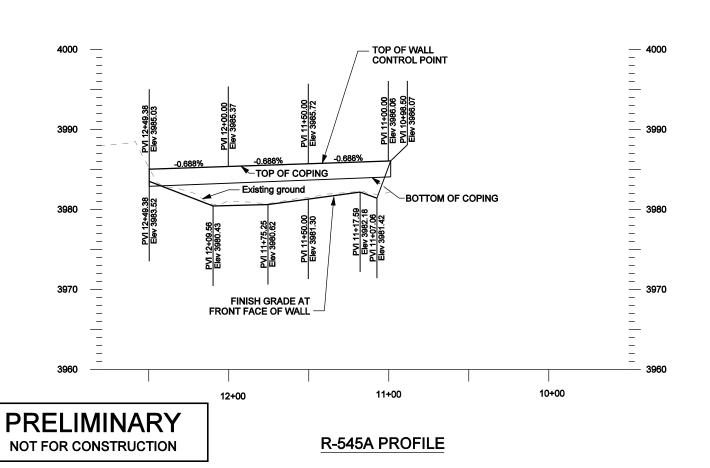
 2" FRACTURED ROCK TEXTURE - APPLY TO ALL EXTERIOR SURFACES (SEE AESTHETIC FORM LINER DETAILS SHEET IN BRIDGE PLAN)

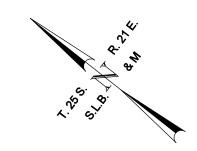
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TE TEANSPOR		SALI LANE CITT, CIAN	ES DIVISION		DESIGN		DBAWN			FINE		
TAU DEBABTMENT OF TBANSBODTATION		OT IT OF I	SIRUCIUR				SENIOR DESIGN ENGR.				UDOT BRIDGE ENGR.	
I TATI					APPROVAL RECOMM.	ı	DATE	APPROVED	FOR USE	1	BY UDO! DATE	-
00490 IO2 931/0-104 311	US-191; OVER COLORADO RIVER BRIDGE - MOAB UTAH				R-545 WALL DETAILS				ST RRE-0101/58/120			
									PROJECT	QV Z		
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R-545 DRG. NO.												

SHT. 7 OF 14

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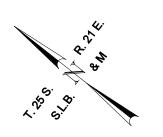


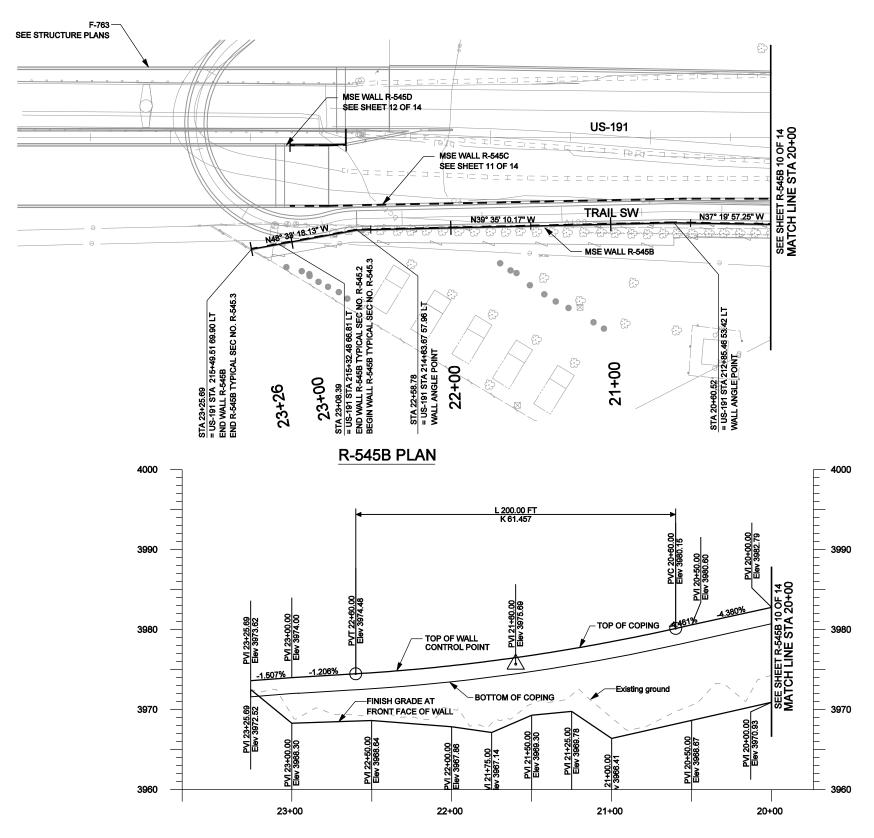
QUANTITIES		
ITEM	QTY.	UNIT
RETAINING WALL (R-545A)	1	LUMP
R-545A) EST. QTY. 581 SQ. FT.)		

UTAH		APPROVAL RECOMM. DATE	APPROVED FOR USE	BY UDOT DATE	
US-191; OVER COLORADO	RIVER BRIDGE - MOAB UTAH	WALL R-545A SITUATION & LAYOUT	PROJECT BRF-0191(58)129		
		AND		_	
	R-	545 G. NO.		_	
SHT.	8	OF	14		

DEPARTMENT OF TRANSPORTATION
SALT LAKE CITY, UTAH
STRUCTURES DIVISION
DESIGN

OPECK





R-545B PROFILE

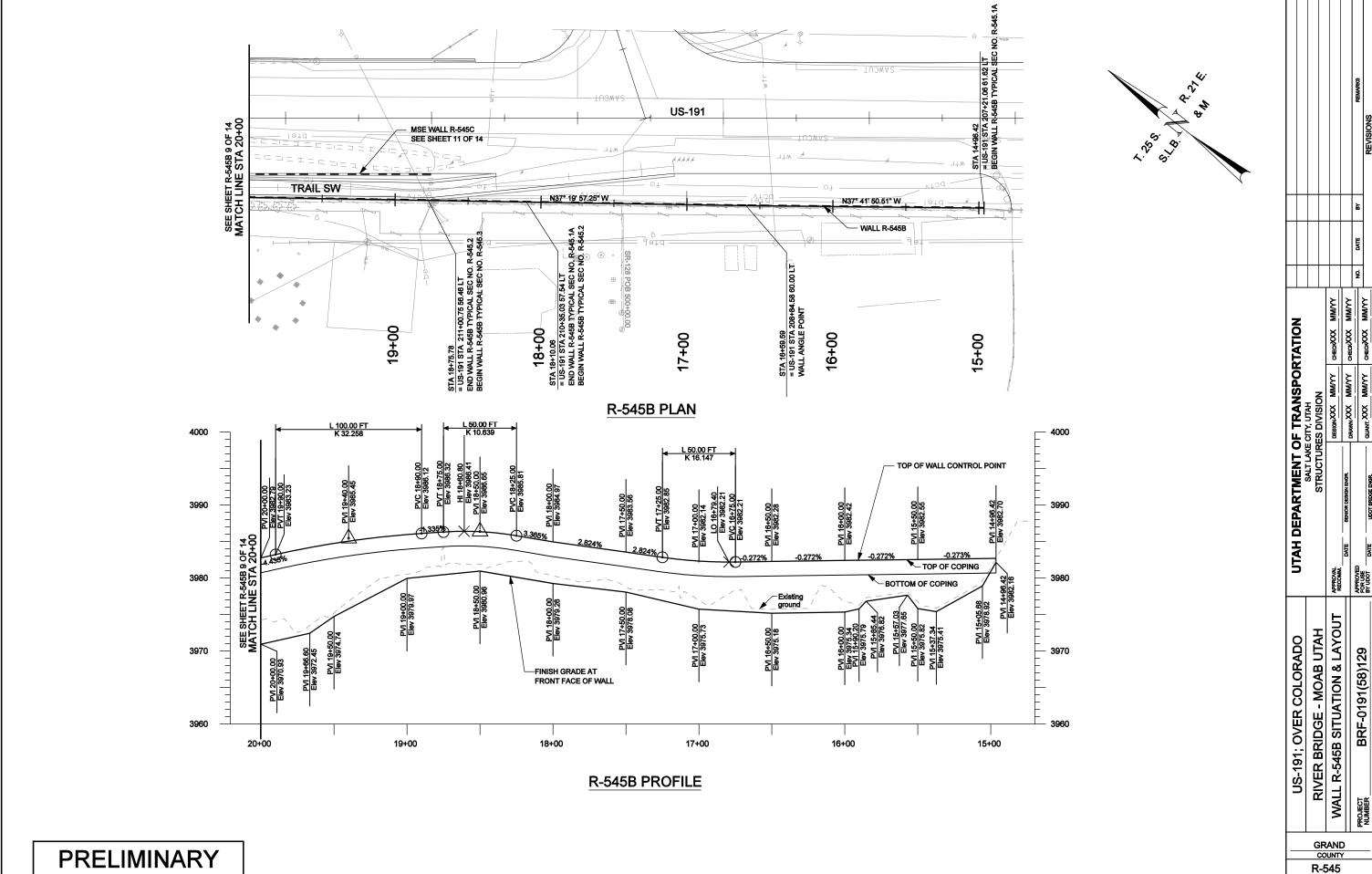
PRELIMINARY NOT FOR CONSTRUCTION

QUANTITIES		
ITEM	QTY.	UNIT
RETAINING WALL (R-545B)	1	LUMP
(EST. QTY. 6131 SQ. FT.)		

RIVER BRIDGE - MOAB UTAH WALL R-545B SITUATION & LAYOUT US-191; OVER COLORADO GRAND R-545 DRG. NO. SHT. 9 OF 14

BRF-0191(58)129

UTAH DEPARTMENT OF TRANSPORTATION
SALT LAKE CITY, UTAH
STRUCTURES DIVISION
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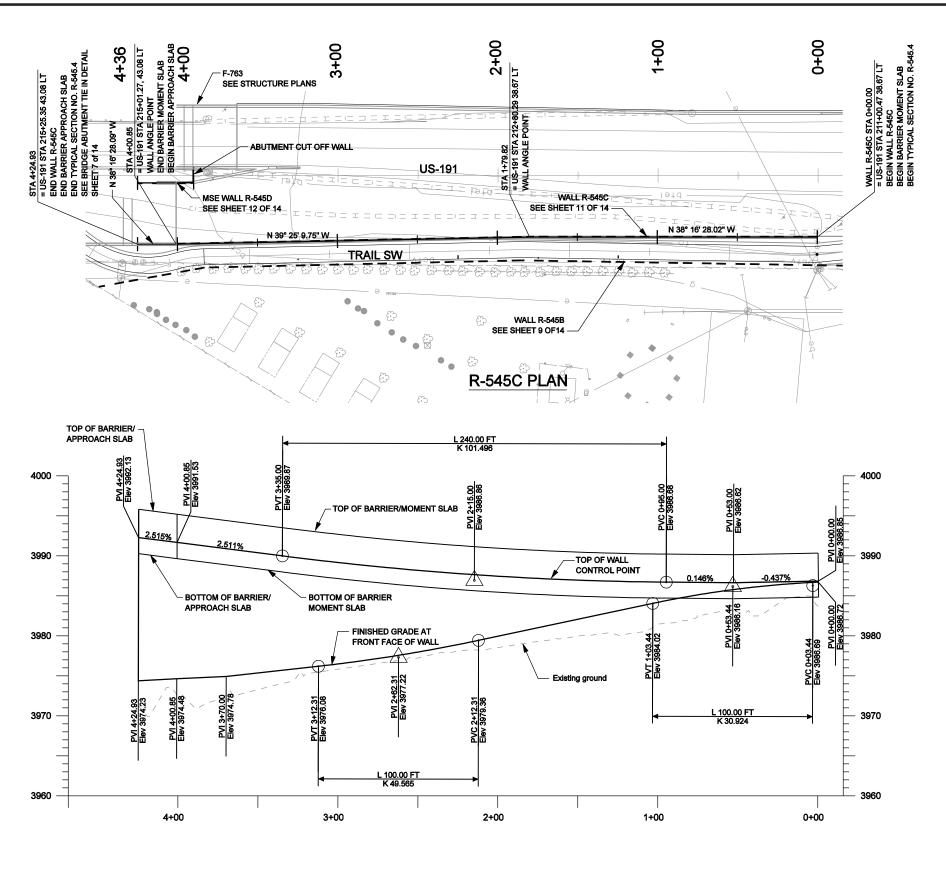
NOT FOR CONSTRUCTION

SHT. 10 OF 14

GRAND

DRG. NO.

BRF-0191(58)129



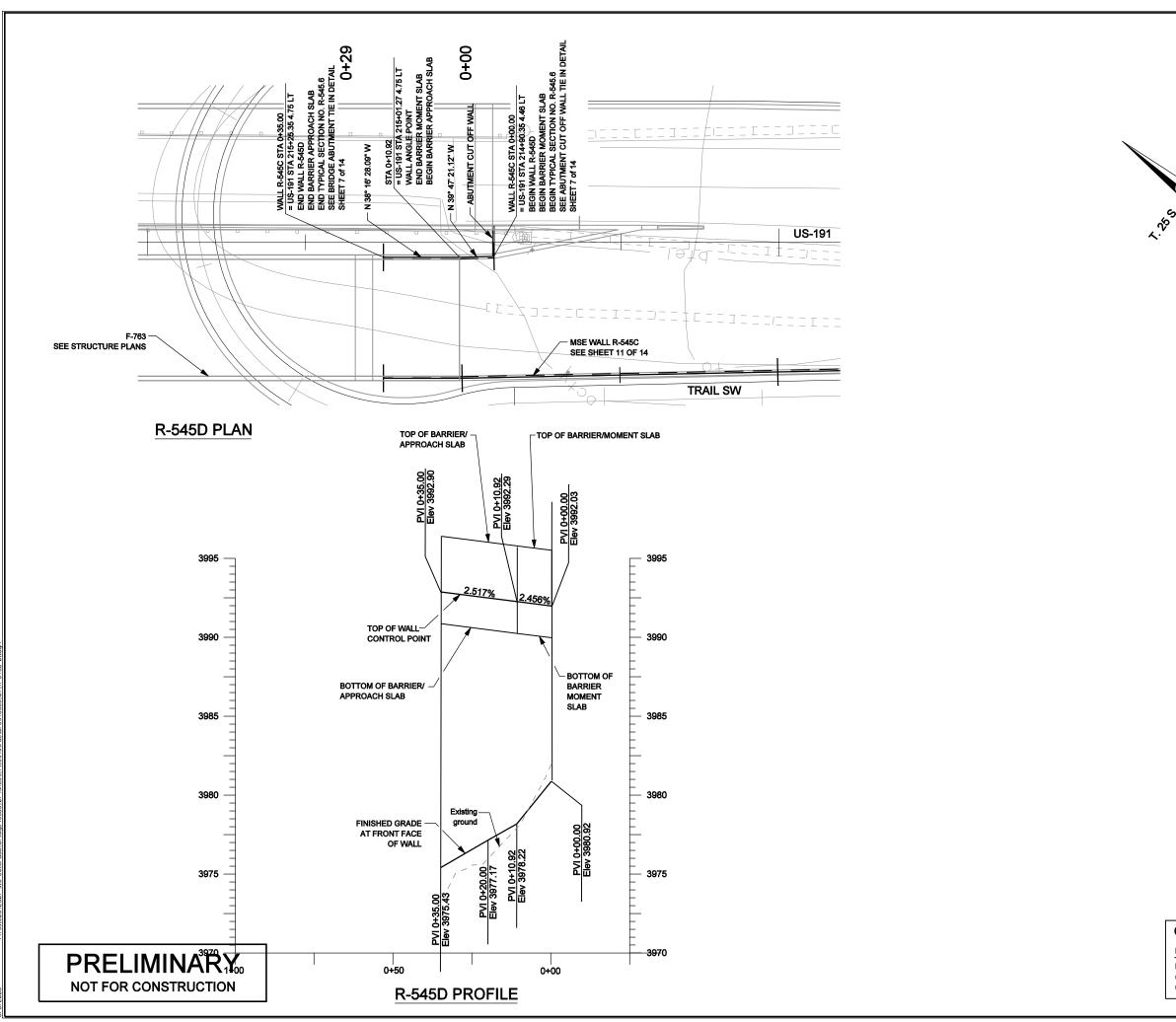
R-545C PROFILE

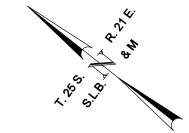
PRELIMINARY
NOT FOR CONSTRUCTION

QUANTITIES		
ITEM	QTY.	UNIT
RETAINING WALL REQ'D (R-545C) (EST. QTY. 3541 SQ. FT.)	1	LUMP

	US-191; OVER COLORADO	RIVER BRIDGE - MOAB UTAH	WALL R-545C SITUATION & LAYOUT	EGT BRF-0191(58)129
			3	PROJECT
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ı			545	
-		DR	G. NO.	
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UTAH DEPARTMENT OF TRANSPORTATION
SALT LAKE CITY, UTAH
STRUCTURES DIVISION
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QTY.	UNIT
1	LUMP
	QTY.

GRAND	
COUNTY	
R-545	
DRG. NO.	

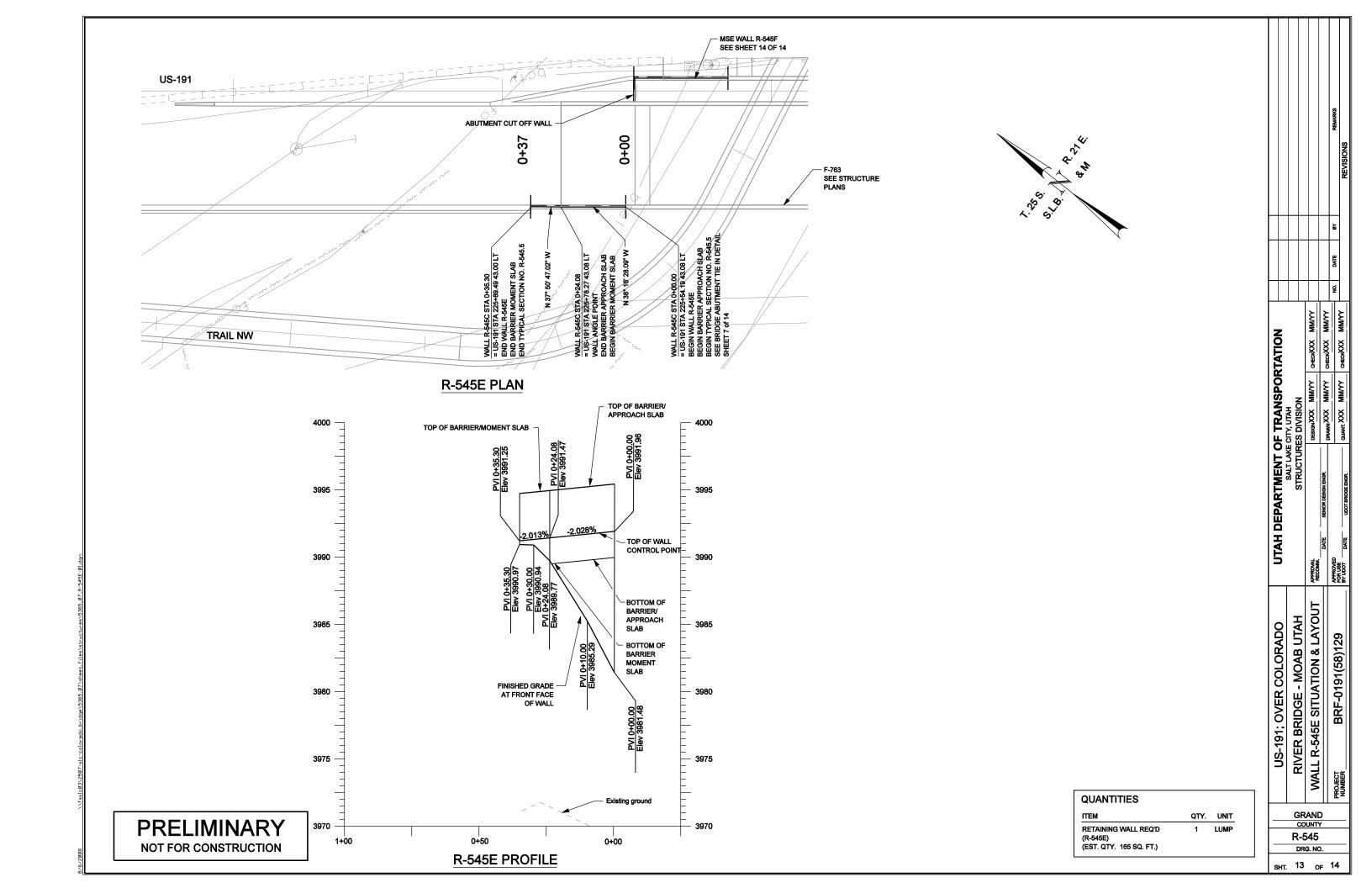
SHT. 12 OF 14

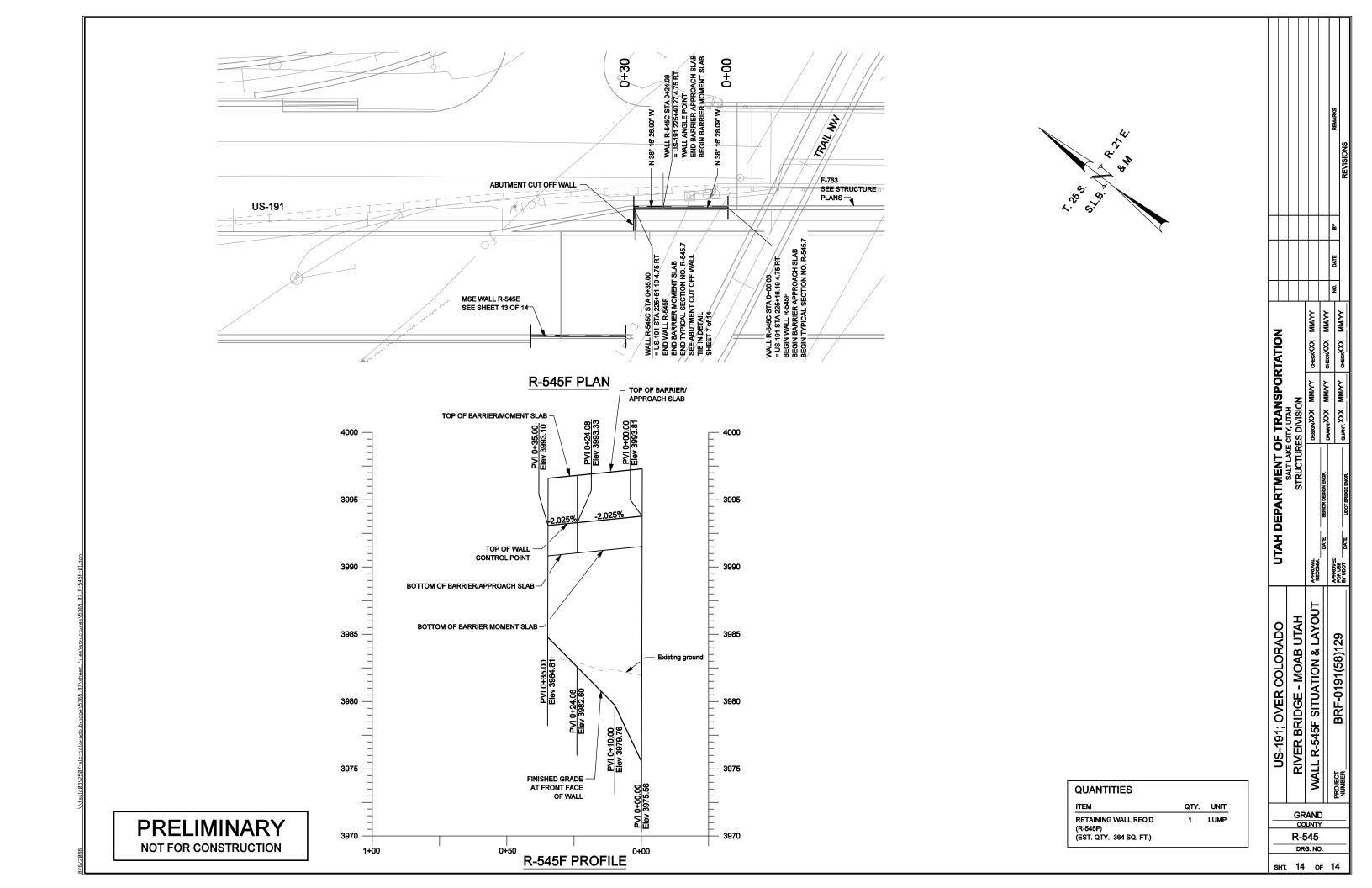
RIVER BRIDGE - MOAB UTAH WALL R-545D SITUATION & LAYOUT

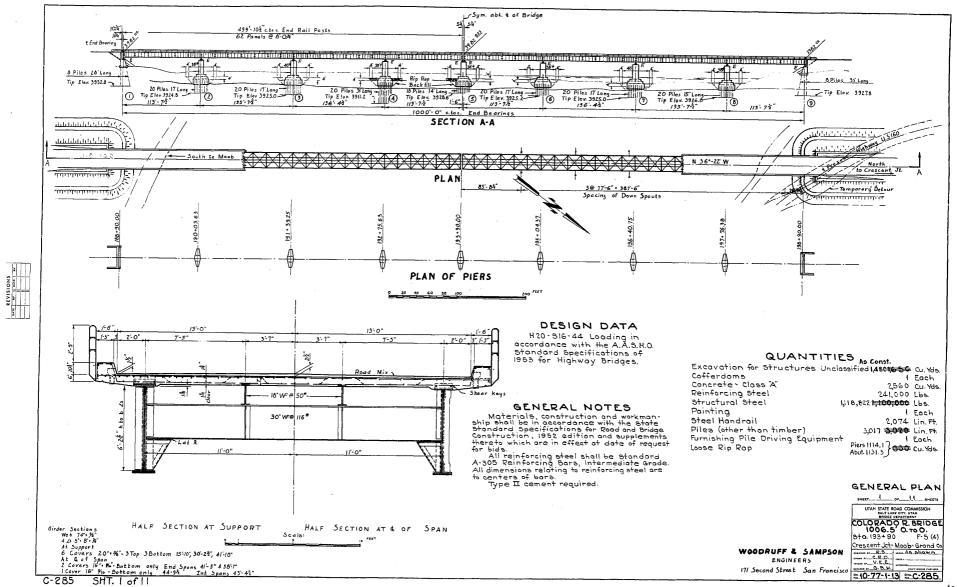
BRF-0191(58)129

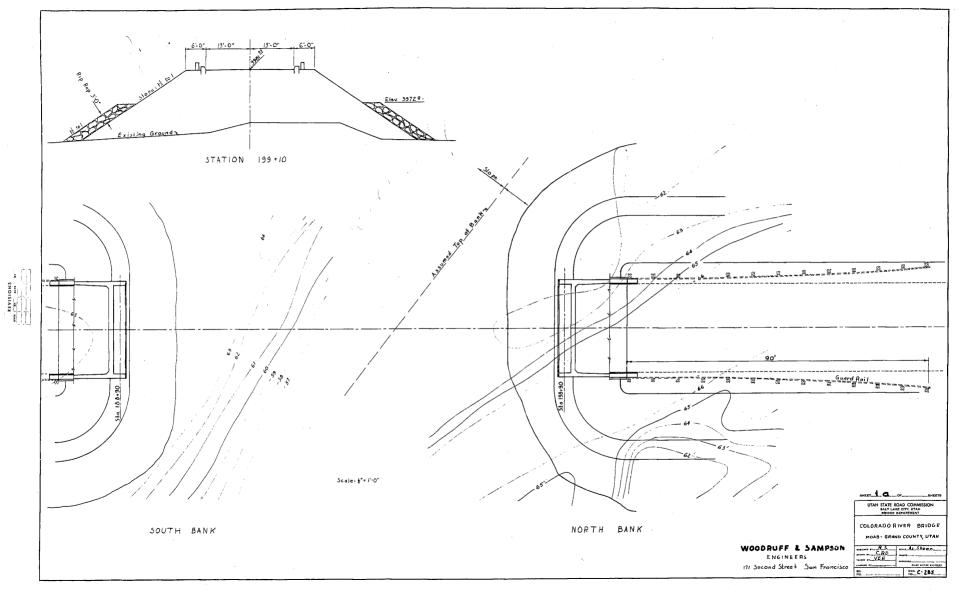
US-191; OVER COLORADO

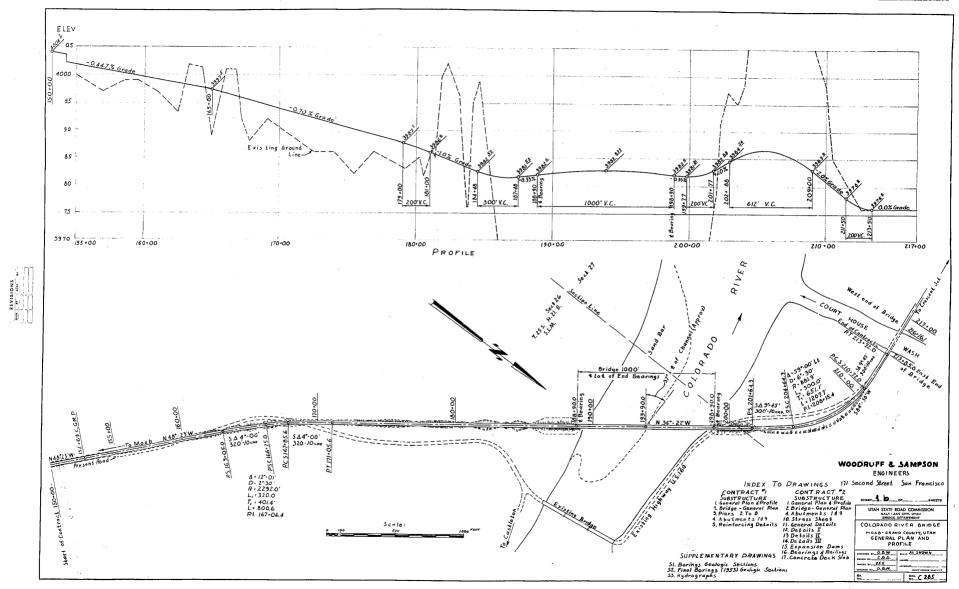
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SALT LAKE CITY, UTAH
STRUCTURES DIVISION
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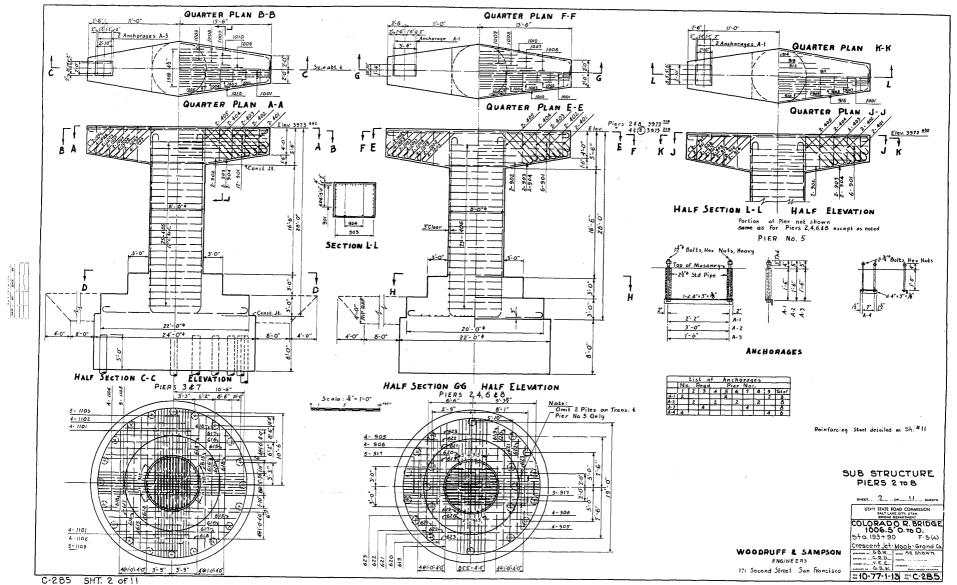


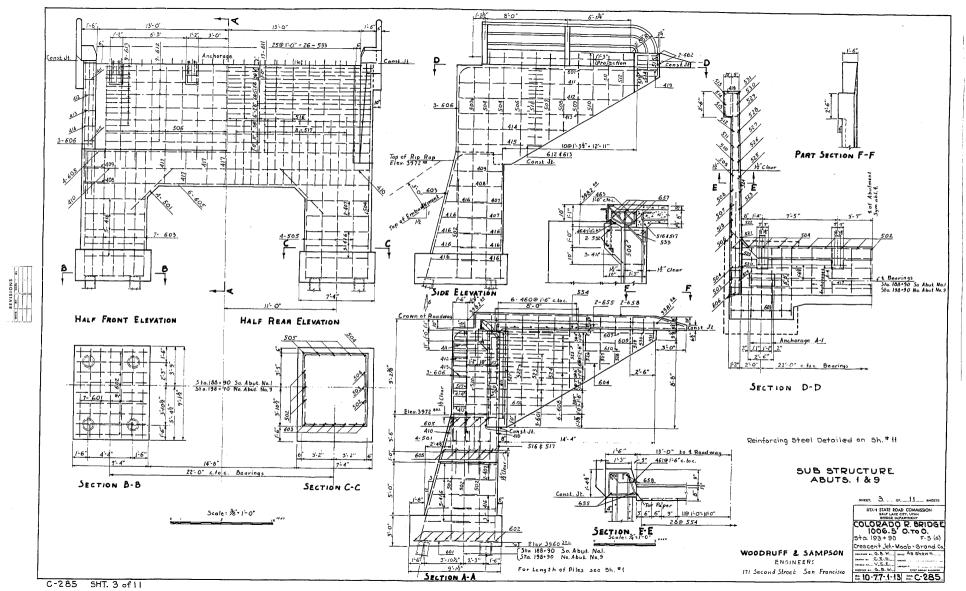


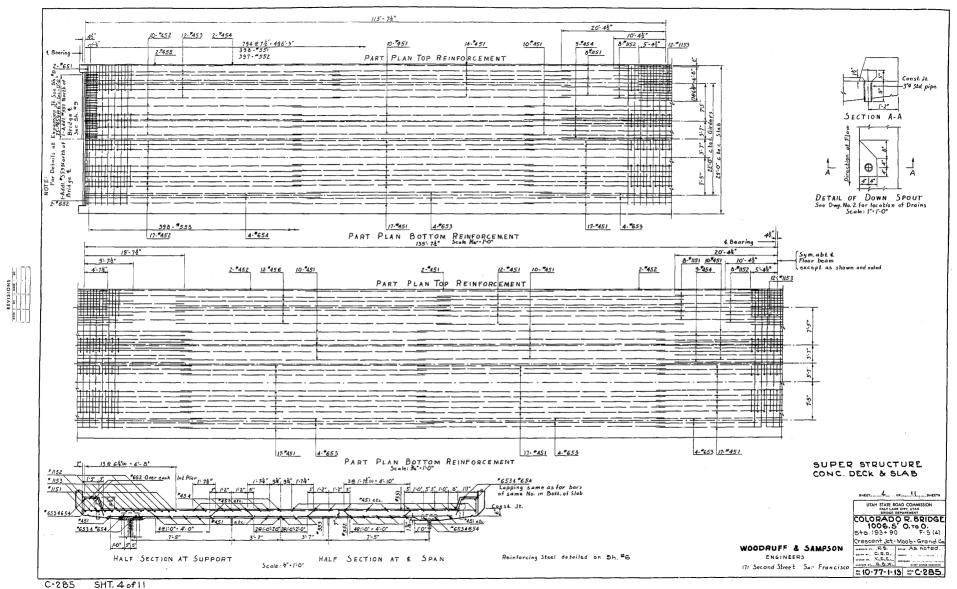


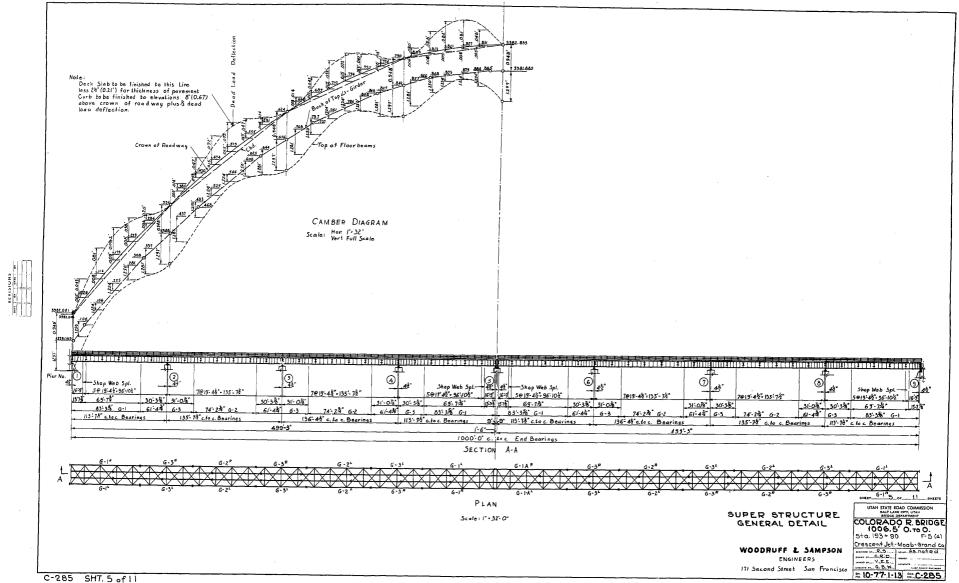


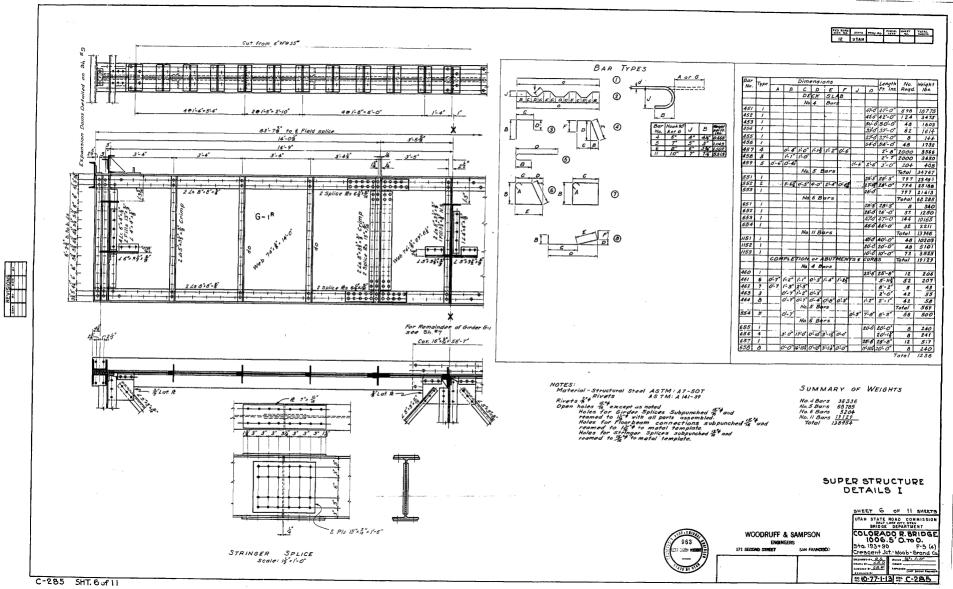


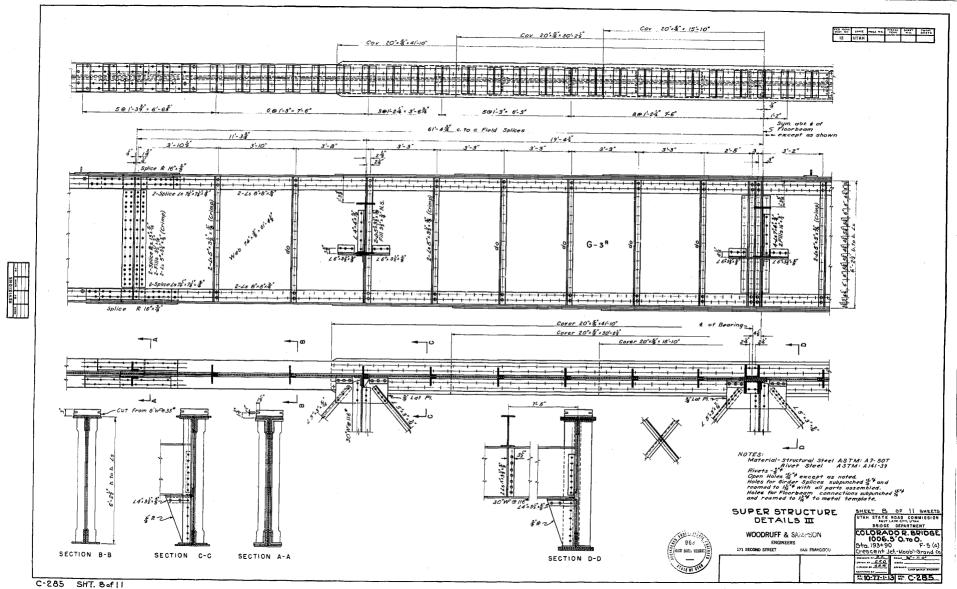


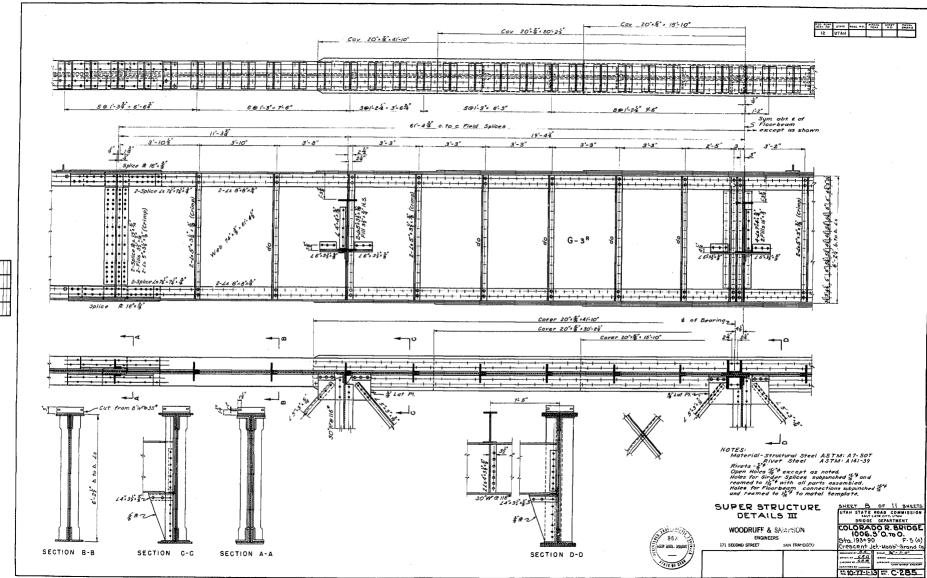




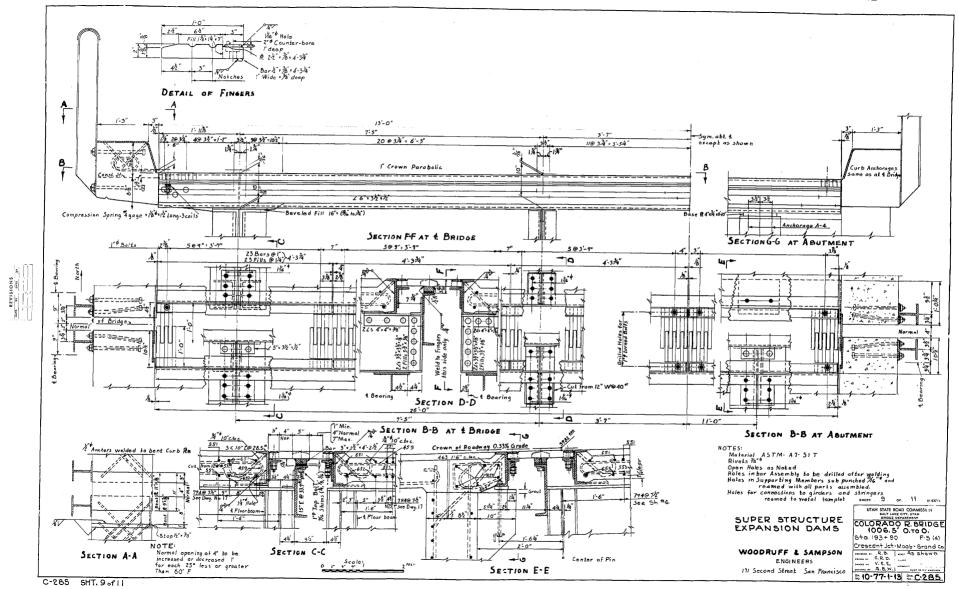


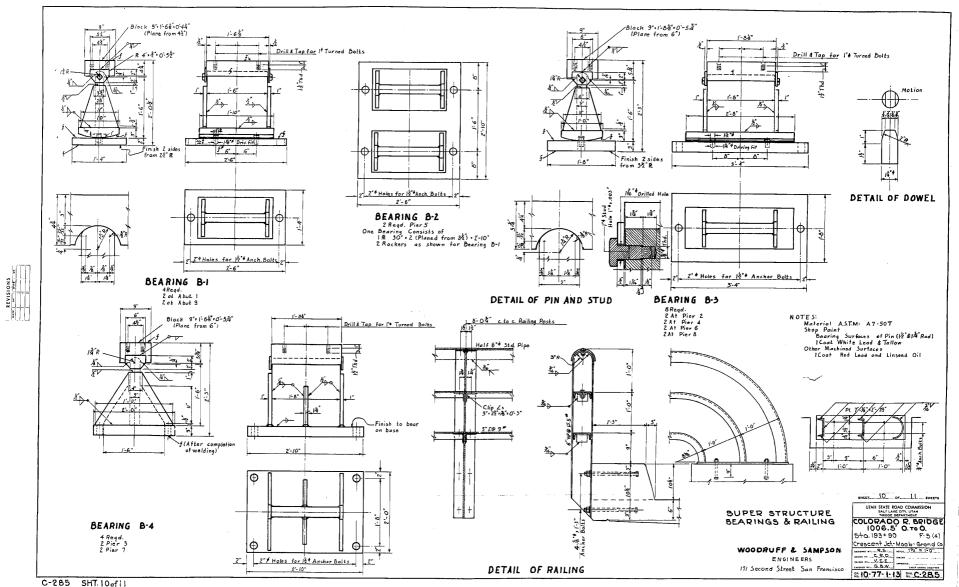


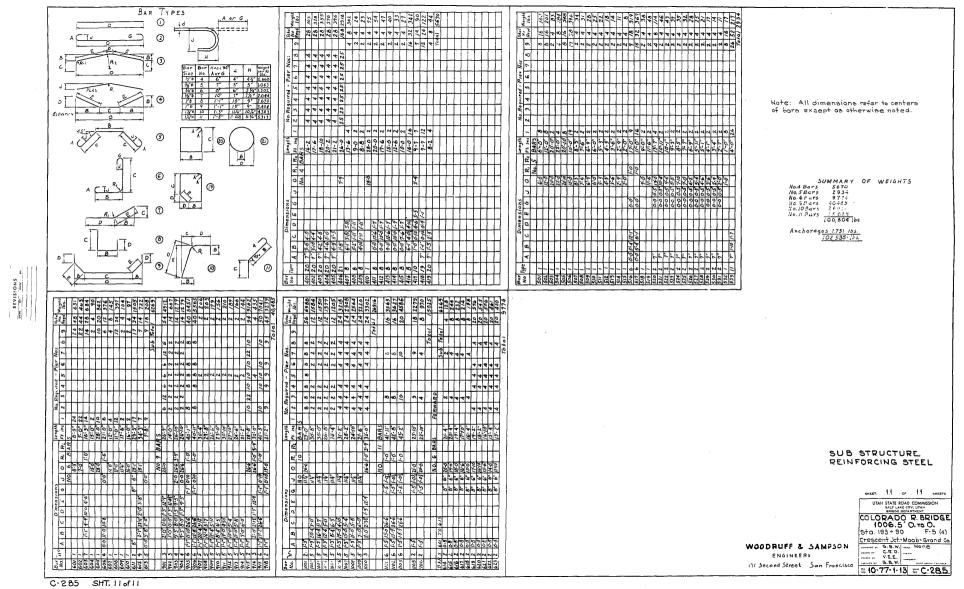


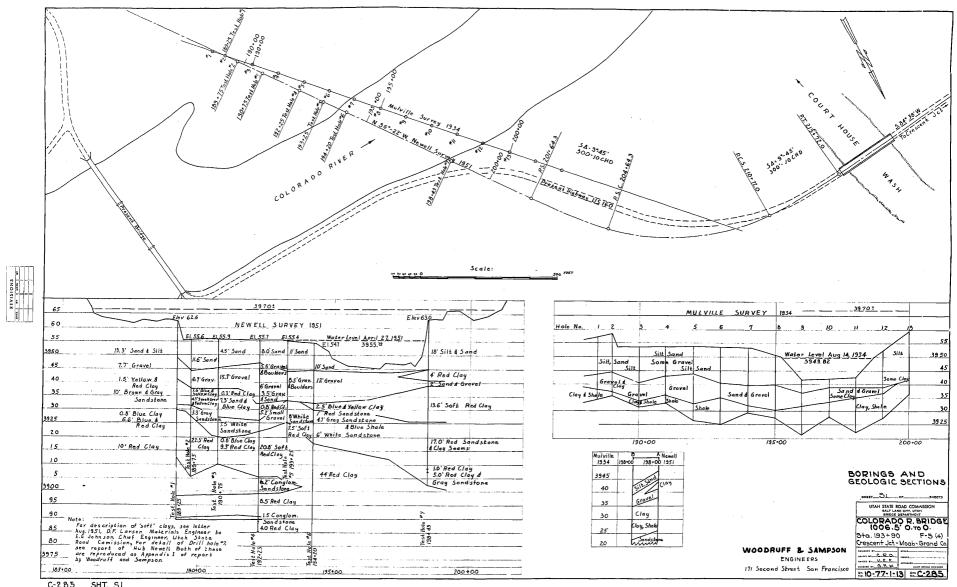


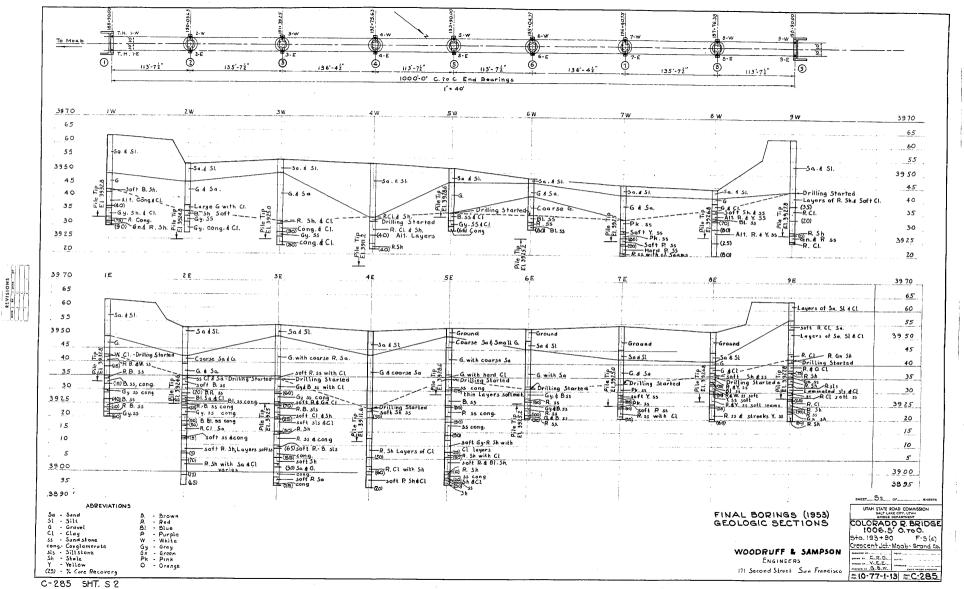
C-285 SHT. 8 of []

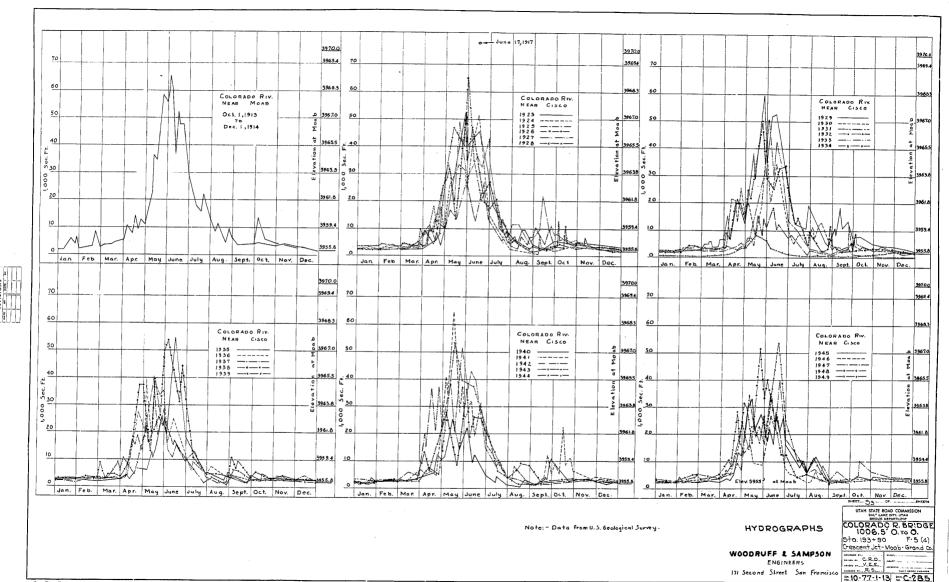


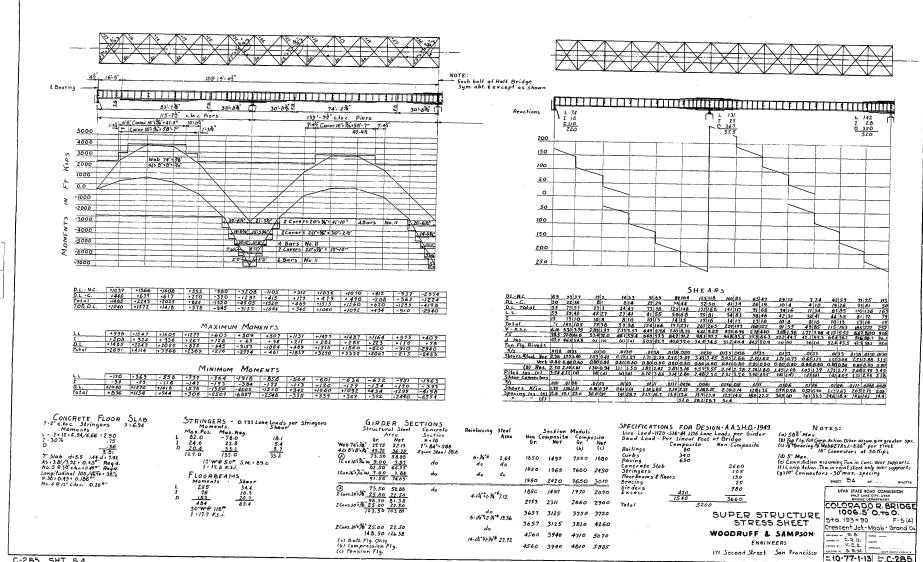












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REVISIONS

